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HARISH KUMAR

OBJECTIVE

To pursue a growing career in an organization that provides good assistance on learning new things and to give my best skill and efforts for the advancement of the organization.

EDUCATION

P.S.G. Polytechnic College — Coimbatore, India

Honours Diploma in Mechanical Engineering (Design & Drafting Specialization)

- First Class with honours

St Paul's School — Coimbatore, India

Higher secondary course certificate

- First Class.

SUMMARY OF QUALIFICATIONS

Project Engineer-Bulk Material Handling Department

- Layout Making or Development.
- Performing Design calculations for Belt Conveyors, Dual Carrying Conveyors & Vertical Steep angle conveyors.
- Equipment Specification preparations or Mechanical Schedule.
- Material feeding calculations.
- Technical Comparison Sheet making.
- Project costing calculation.
- Co-ordination with purchase, material section, Erection and Commissioning.
- Co-ordination with Vendors at their works.
- Detail Engineering.
- P & I Diagram making.
- Handling Project activities through SAP – ERP.

Integrated responsibilities handled in projects

- Apart from major Design Engineering, I had taken responsibility in project activities such as Vendor Drawing Checking, Material BOM making, raising PR's and Technical QCS – Quotation Comparative Statement and keeping track on supplier's schedule.
- Has been deputed to Vendor's works for co-ordination of project technicalities.

ACCREDITATIONS

Certified Professional in Project Management (2005) by **Brainbench Certifications (U.S.A)**

Certified by **Essar Learning Centre (Hazira)** for Project Management.

Certified by **Essar Learning Centre (Hazira)** for Material Management.

Certified by **Essar Learning Centre (India)** for Exec. Leadership Camp.

PROFESSIONAL EXPERIENCE

Apr 04 to Apr 06 **Essar Steel Limited** Hazira, India

Project Engineer-Bulk Material Handling Department Sponge Iron Plant.

Projects Handled:

(1) DESIGN & ENGINEERING OF OXIDE FEEDING SYSTEM – MODULE-IV PHASE I & II:

- Developed layout and designed Oxide/Pellets feeding System for Module IV-Phase I **(Sponge Iron Plant - Midrex)** of 120 Tons/Hr production. This requires initial feed rate of 4000 Tons/Hr from Jetty and screening is done around 1200 Tons/Hr finally it is conveyed to module. Each conveyer having the rated capacity of 250 Tons/Hr.
- A new scheme of **Vertical Steep Angle Conveying** i.e., the conveyors with Angle of Inclination of 90 Degrees rated 2000 Tons/Hr with the height of 56m is developed to feed the system with raw materials. These belts are installed in the motivation reliability and durability for hassle free Operation and Maintenance.
- Apart from the vertical Steep angle conveying, **20 Conventional Belt Conveyors** rated 300 Ton/Hr and **2 belt conveyors** rated **2000 Tons/Hr** are designed and executed for the system.

(2) DESIGN & ENGINEERING OF PRODUCT HANDLING SYSTEM – MOD-IV:

- Developed layout and designed product/Hot briquettes feeding System from module four having approximate design capacity of 150 Tons/Hr. this gets the feeding from drag chain conveyors and is finally fed to the Steel Melting Plant **(SMP)**.

(3) DESIGN & ENGINEERING OF PELLETS FEEDING SYSTEM – Module V:

- Developed Layout and designed Oxide/Pellets feeding System for two Modules **(Sponge Iron Plant – Midrex & Corex)** of 250 Tons/Hr production. This requires initial feed rate of 2500 Tons/Hr from Jetty to five bunkers & after screening around 1000 Tons/Hr is conveyed to two Modules. Each having the rated capacity of 500 Tons/Hr.
- A **Dual Carrying Conveyor (D.C.C.) of 2500 Tons/Hr** Capacity at Carrying side and return side carrying **500 Tons/Hr** having horizontal centres of **1.7 KM Long** is developed and designed to facilitate the oxide feeding from Jetty. The carrying side of belt is carrying **Lump Iron ores and Pellets** whereas the return side of the belt carries **Fines / Oversize** back to Jetty.

- Apart from the D.C.C, **8 Conventional Belt Conveyors** rated 500 Ton/Hr are designed and executed for the system.

May 06 to Present **Larsen & Toubro Limited** Mumbai, India

Project Engineer-Cement Pant Project Department.

Project Duties:

- Layout making for whole cement plant with AutoCAD 2006 and Designing of Material Handling feeding system for Cement Plant and checking of vendor drawings to suit the layout.
- Designed conveyors for P.P.C, O.P.C, Clinkers, Coal, Limestone, Gypsum, Shale and Slag etc for Cement plants.
- Designed long conveyor of 2.5 Kms for handling limestone from Crushing Plant to Raw mills.
- Layout engineering of silos such as Raw Meal Silos, Cement Silos, Clinker silo and the storage bins for Shale, Limestone and Gypsum.

Projects Handling:

- Gujarat Anjan Cement Plant projects (4500 TPD), Gujarat India.
- Jaypee Sun Sidhi Cement Plant Projects (5000 TPD), Sidhi, India.
- Oman Cement Company (S.A.O.G) Projects (5000 TPD), Rusayl, Oman. (Proposal Stage).

PATENTS AND PRESENTATIONS

Patents made at Profession:

- Developed a program on Visual Basic 6.0 and M.S. Excel for performing design calculation of Belt Conveyors (This program has been validated by ***Larsen & Toubro Limited*** for their projects.
- Developed a program on M.S. Excel for performing design calculation of Air slides (This program has been validated by ***Larsen & Toubro Limited*** for their projects.
- Successfully studied, developed and designed spoon type feeding chutes for Iron ore, Pellets and Limestone at ***Essar Steel Limited,*** which resulted in less belt wear and improved flow of material through Conveyor.

Paper presented:

Presented a paper in **"Modern energy conservation techniques in Industries"** at Technical Symposium held at Coimbatore, India.

SYSTEMS PROFICIENCY

Engineering Packages

- SAP-Material Management, AutoCAD 2000, 2006, Pro–E 2001 and Beltstat 7.0.

Other Packages

- HTML, Visual Basic 6.0, MS-Office suite

AWARDS RECEIVED

- Received **Best All Rounder Award** for excellent performance in studies, sports and discipline at College.