



HARISH C. RANA, P.E.

SUMMARY

Electrical engineering design of all electrical systems for petrochemical, refinery, chemical and industrial plants from front-end project planning electrical capital cost and engineering man-hour estimate, preparation of electrical single line diagram, coordination with power utility for incoming power line, electrical equipment specifications, design of protective relay scheme for protection of power systems and performing load study, short circuit and relay coordination studies, and supervision of detail electrical engineering design work.

PROFESSIONAL EXPERIENCE

LXDE Corporation
Monroe Township, New Jersey

April 2004 - Present

Principal Electric Engineer:

Engineer and Design Electrical power distribution, grounding, lighting, instrumentation and control systems for construction and operation of ground water remediation plants. Specific responsibilities have included preparation of electrical single line diagram, coordination with power utility for incoming power line in the ground water treatment plant. Selects protective relay scheme for protection of power systems. Performs load study, short circuit study and relay coordination study.

Review Process & Instrument flow diagram for instruments and control systems point of view and equipment specifications. Review instrument's specifications and vendors subtitles.

Prepares specifications for low voltage switcher, motor control center, computer control system based on PLC and/or personal computer. Reviews bids and selects vendors based on price and technical acceptance.

Prepares motor control diagrams, logic diagrams, control ladder diagrams, lighting protection, power and instrument layout drawings, specified fire alarm and security system.

Prepared electrical capital cost and engineering man-hour estimate and budget for design and construction of groundwater remediation plant.

H-R International
2045 Lincoln Highway, Edison, NJ

November 1991 - April 1994

Principal Electrical Engineer:

As a Project Electrical Engineer, prepared electrical single line diagram, coordinated with power utility for co-generation plant tie into the utility. Selected protective relay scheme for protection of generator and plant power distribution system. Performed load study, short circuit study and relay study using Dapper and Captor computer program.

Prepared specification for substations, medium and low voltage switchgear, motor control center, generators, and meters.

Prepared capital and engineering man-hour estimates and budgets for electrical part of the co-generation plant. Supervised employees engaged in the preparation of design, computations, layout and installation details drawings and electrical material takeoff in conformance with project specifications.



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