

CURRICULUM VITAE

Name: Parag Lalit Soni

Designation: Lead Engineer Electrical

Nationality: Indian

Date of Birth: 20th Nov ,1973

Education: BE (Elect), 1995 from
Sardar Patel College of Engg.
Mumbai, India.
Diploma Electrical,1992 from
M.H.S.S Polytechnic,
Mumbai, India.

Software Knowledge : AutoCAD Software.
Computer Aided Training, Mumbai, India.
Internal Quality Auditing courses, 2005.
ETAP, EDSA, DigSilent.
Microsoft software like Word, Excel, Access, Power point etc.
Philips & Chalmite lighting software.
Harmonic Analysis software. (ABB - PQ Sensor)
Naviswork Jetstream for 3D model viewing.
Vendor Procurement Requisition module software for
Preparation of MTO & PO.

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SUMMARY:

I have 25years of working experience in Oil & Gas, Power plant, Paper industries, Building Infrastructural, Nuclear, Fertilizer, IT projects. I have knowledge and understanding about Industry norms, International Codes & Standards, best practices, quality management systems, safety compliance, etc. I have Knowledge and use of modern engineering, software tools such as ETAP, EDSA, DIGSILIENT, Lighting software etc.

I have worked as Lead Electrical Engineer & build the morale and motivation of team towards achieving competitive and optimised Designs, worked as Field Engineer during installation and carried out Testing & Commissioning.

Key Qualifications:-

- Specialized in design of Electrical Systems for upstream and downstream Oil & Gas industry, Refineries, Petrochemical plants, Power plant, Paper Industries, TCS- IT Park Building service, ATM manufacturing factory.
- Experience in Conceptual design, FEED design, Basic engineering, Detail engineering, E.P.C projects.

- Experienced in preparing and reviewing Engineering deliverables i.e. Design Specifications, Equipment Specifications, Data Sheets, Design Calculations, Single Line Diagrams, Schematic & Logic diagrams, Layout Drawings, Material takeoff etc.
- Experienced in carrying out procurement activities i.e. Preparing Material Requisitions, Request for Quote, Scope of Work, Technical Bid Evaluation, Vendor Drawing Review, Witness inspection & testing, etc.
- Experience in Man-hour Estimation, Proposals, Planning and conducting internal Quality Reviews.
- Familiar with various National/International/Company standards like I.E.C, I.E.E.E, ANSI, IS, BS, SHELL DEP & SP-PDO specification.

PETROLEUM DEVELOPMENT OMAN - LEAD ELECTRICAL ENGINEER.

Location : Muscat, Oman.

{April 2014 till 31Dec 2020 }

1.0) Yibal Khuff Project -Oman

The following activities carried out for the Mega project;

- FEED Design support for the review of Man-hours and the plant-estimated quantities.
- Review of the Construction Tender document and clarification preparation to Construction contractor queries.
- Review of Mechanical package specification for electrical inputs.
- Monitoring and Supervision of the EP contractor to ensure that the project deliverable quality and integrity is maintained including schedule and budget.
- Review & Approval of Contractors design deliverables such as Design basis, Load List , design calculation, system study, specification, Data sheet, MR and PR including Execution plans, Method Statements, ITPs, work procedures and practices.
- Ensure technical integrity of the Electrical equipment/systems in maintained during detail engineering phase.
- Review with Contractor the proposed designs and 90% model review.
- Review & Approve plan of EP (Engineering & Procurement) Contractor for Design and procurement of the Electrical Equipment for the facilities.
- Liaise and coordinate with the other disciplines (Civil, Mechanical, Electrical, and Instrumentation)
- Co-ordinate for discipline interfaces.
- Liaises with PDO approve consultant for performing the System study report and Relay Setting Schedule.
- Review & Approve 132kV GIS, 33kV GIS, 6.6kV , 415V Switchgear MR/PR Specification , Data sheet & Vendor drawings of electrical equipment such as transformer, VFD, UPS system, DB , Fixtures , Lighting poles etc MR/ PR , Specification , Data sheet vendor drawing review.
- STG and GTG Elect /Mech package Offer review, Technical Bid Evaluation, Material Requisition ,Purchase Requisition,

Specification and Data sheet , vendor drawing review carried out.

- Review of other Technical Deliverable cable schedule, Cable routing layout, Earthing design and routing layout, interconnection schedule.
- Participation in the Electrical Design review and SAFOP.
- Attending Inspection of the Electrical equipment- Transformer , Synchronous motor, HV / LV switchgear, cables, HV/LV Busduct, Synchronous Generators, Diesel Generators etc.
- Supporting Construction and Commissioning team at site for correct implementation of the Design carried out.

2.0) Budour Integrate Project (BIP) FEED- Oman :-

The following document/drawings were reviewed and approved for FEED design.

- Electrical System design review, Single line diagram , Protection block diagram, cable routing, Feed verification report, System studies, Bulk MTO preparation, Man hours and cost estimation, Design Specification, Data sheet review.
- 132kV Cable sizing calculation.
- 132kV Line-In & Line-Out Tower layout and profile routing layout and Switchyard gantry design.
- Participation in the SAFOP and Design review during FEED.
- Design of the Camp Facilities for 5000 person including PDO and contractor camps.
- Review of the camp facilities earthing layout, lighting layout, Single line diagram preparation, system study. Checking the feasibility of the power supply connection from Remote end substation.

3.0) RHIP Camp Facilities- Oman : -

- Tender specification review for Electrical System design , Cost estimation, Tech Evaluation of offers for proposal,
- Contractor queries clarification
- Tender document / deliverable such as load list, substation layout, routing layout, 33kV OHL route layout review
- Switchyard and substation layout designing, Cable trench routing drawing review.

4.0) Khulud Project -Oman:-

- Electrical Design basis review and the route survey report review. Electrical switchrack and substation layout review.

5.0) De Mudding Plant Project -Oman:-

- Tender specification preparation for Electrical System for De mudding plant.
- Review of the contract document.

6.0) Frame agreement for Compressor:-

- Review of the Technical offers of the vendor
- TQ preparation and Technical Bid preparation.
- Attending the meeting with the compressor vendors.

Petrofac International Ltd. Lead Electrical Engineer

Location : Sharjah, UAE
[Sept, 2006 - March 2014]

1.0) Kauther Depletion Compression project -

2 x 18 MW Compressor

Petroleum Development of Oman - 450 Million USD.

The following were the responsibilities / Duties performed ;

- Participation in the Kick off meeting with vendor, Plant Design Review, SAFOP, HAZOP and HAZID , Project Risk assessment, Constructability & operate- ability Review.
- Co-ordination with the Client - PDO and various electrical and mechanical package Vendor.
- Preparation & Review of Vendor Drawing and Document register.
- Design and review of 132KV Switchyard and control Building extension.
- Preparation of Cable Schedule, Drum schedule, Interconnection schedule.
- Preparation of Key Single Line Diagram, Single line Diagram, Typical Installation drawing, Earthing Lightning layout and Lighting Layout, cable trench & tray Routing Layout.
- Preparation of the Substation Equipment layout,
- Tie-in Schedule and Work pack preparation.
- Relay Setting and Co-ordination report and schedule preparation and review.
- Carrying out System Studies - Load Flow, Short circuit studies, Motor starting studies, Harmonic Studies.
- Review of the Harmonic Filter design for the LCI of 18MW Compressor Motors.
- MTO preparation and Technical Bid Evaluation & Purchase Requisition Preparation.
- Attending Factory Acceptance tests for the various Electrical Equipment -Synchronous Motors, Load Commutated Inverter (VSDS), Harmonic Filter components such as Resistor , Capacitor and Reactors, Convertor transformer, Power Transformer and Earthing transformer, MV and LV switchboard, IMCS - Integrated Motor control System for Motor feeder and Relay communication system, SCADA System. Emergency DG sets of size 2000kVA and 800KVA, at 415V supply. Thyristor panel, and process Heaters. MV and LV cables.
- Co-ordination and Providing support to the commissioning team and participation in the commissioning activities and carrying out the performance runs of compressor.

2.0) Harweel Phase- 2 Facilities.

Petroleum Development Oman :- 1Billion USD.

OIL and Gas Facilities

The following are responsibilities/duties ;

Preparation of Inquiry requisition, Evaluation of vendors offers, cable sizing & schedule, Vendor drawing review, Interaction with client for approval of drawing, for following packages;

- Cathodic protection System - Tanks/vessels,
- Electrical Heat Tracing System,
- 110V DC UPS system & 240V AC UPS system,
- HV termination Kits,
- LV Switchboard & Distribution Boards,
- HV Switchboard motor feeders.
- Auxiliary Temporary Refugee Building -Electrical Design including - Lighting & power distribution, cable tray routing, Earthing.
- Vendor drawing review of the Mechanical Package drawing.
- Participation in Inspection of the Mech package and Electrical Equipment.

3.0) Saih Rawl Depletion Compression project Proposal :- Petroleum Development Oman

Electrical System design review, Feed verification report, System studies ,Bulk MTO preparation, Man hours and cost estimation.

4.0) Saih Nihayda Depletion Compression Phase-1 Proposal :- Petroleum Development Oman

Feed verification report, System studies ,Bulk MTO preparation, Man hours and cost estimation.

5.0) AIRAR -Algeria Plant

Proposal for Electrical System , including FEED verification, Cost estimation, Tech Evaluation of offers for proposal, Switchyard and substation layout designing, Cable trench routing drawing preparation.

6.0) Dragon Oil - Turkmenistan ;

Proposal for the tank farm and Oil & GAS facilities plant. Preliminary design of Electrical System , including FEED verification, Cost estimation, Tech Evaluation of offers.

7.0) RHIP - Muscat

Verification of FEED Design, Cost estimation, Manhours estimation, Bill of quantities preparation, Cable trench routing layout preparation.

8.0) ADCO - BAB Compression Project -Abu Dhabi

3x 13.68MW Gas Compressor with VFD driven & Harmonic Filter installed in the container, 33kV OHL with Steel Tower, HV Switchgear, LV Switchgear , Power transformer, Unit transformer and the other electrical equipment design.

Including MTO preparation, Cable Routing Layout, Tray layout, earthing layout , lighting layout, Relay co ordination study report review prepared by company consultant Fitchner. Brown field activities to carry out filter modification and RMS substation modification for LV switchgear.

TCE Consulting Engineers Ltd,
Location : Mumbai. India
[May,1998 - Aug,2006]

Senior. Engineer- Electrical.

Worked on the various project list below;

- 1.0) Essar Oil Refinery - Vadinar Jamnagar, 10.5MMTPA Refinery.
- 2.0) Hindustan Newsprint Ltd- Kottiyam , Kerala. 150 TPD De-Inking plant.
- 3.0) Tata Consultancy Services -Kolkata/ Mumbai Global Development Building project- Software development Park.
- 4.0) Tata Infotech Ltd - Goa ATM manufacturing Factory facilities.
- 5.0) ONGC - Gandhar, Revamping & Expansion Gas plant project.
- 6.0) Tata Power Company -Trombay, Power Generation plant. Flue gas Desulphurisation for unit # 5-Proposal, Vacuum Conveying System- revamping, Fire Protection System for Station -A revamping.
- 7.0) Pre Bid technical offer preparation for L&T. BSES - FGD at Dahanu -proposal.
- 8.0) Indira Gandhi Centre for Atomic Research Proto Type Fast Breeder Reactor.

The responsibilities/activities carried out during the tenure of job are listed below;

- (i) Preparation of Basic Concept note/ Design Basis report
- (ii) Tender specification preparation, Techno-commercial evaluation.
- (iii) Vendor drawing review of various Elect Equipment/packages.
- (iv) Preparation of Single Line diagram, Equipment Layout, Earthing, Lighting & Lightning Layout, cable routing layout etc.
- (v) Cable sizing /schedule & interconnection diagram preparation.
- (vi) Relay setting and co-ordination, Short circuit analysis, Voltage dip calculation, Grid islanding and load shedding scheme.
- (vii) Inspection /Expediting of the various electrical Equipment such as HV/ LV panel, Battery charger, Transformers, HT/LT capacitor Banks, HT/LT motors, DG sets, HV/LV cables, Busduct, VSD, UPS etc.

- (viii) Testing & Commissioning of HV/LV Switchboard, Busduct, DG sets, VSD panel, APFC panel, Control & Relay panel , Synchronisation panel, HVAC system.
- (ix) Design review of the 220kV Switchyard, including vendor drawing of the Control relay panel, Bus zone protection panel.

Power System Consultant- Mumbai,
Location : Mumbai.India
[June1996 - May1998]

Senior Engineer- Electrical

Worked on the various project list below;

- 1.0) Grasim Industries - Nagda,
1x 40MW Power plant.
- 2.0) Birla Cellulosic - Kharach,
2x18MW Power plant.
- 3.0) Atul Industries - Valsad
Revamping of existing system.
- 4.0) Hindustan Petroleum Corporation - Mahul Mumbai.

The responsibilities/activities carried out during the tenure of job were included designing of Electrical system for power plant, including field engineering support and carrying out testing & commissioning of the project.

Baliga Lighting Pvt Ltd ,
Location : Mumbai
[Aug, 1995 - May1996]

Sales Marketing Engineer- Elect.

Worked as Sale Marketing Engineer for the sales of the Ex certified Lighting fixtures/Junction Boxes/ Switches.