



## JIGNESH P SOLANKI

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### SUMMARY OF EXPERIENCE & CORE COMPETENCIES

24 Years of Onshore Pipeline and Tank farm experience from Hands-on to Strategic level in Major Oil & Gas EPC Projects

- Field engineering and Project construction Management,
- Start up and Commissioning,
- Operations Management,
- Pipeline Maintenance,
- Asset and Pipeline Integrity Management / RBI.

### CAREER HIGHLIGHTS

#### ➤ Designation:

- Present – Senior Manager (Operation & Maintenance) June 2015 – Till date
- Manager (Operation & Maintenance) (July 2012 – June 2015).
- Operation & Maintenance Superintendent (Nov 2009 – July 2012).
- Pipeline Engineer (Jan 2009-Nov 2009).

Employer: VEDANTA LIMITED (Formerly Cairn India Limited & Cairn Energy India Pty Limited).

Duration: January 2009 to till date.

PMC: PENSPEN INTERNATIONAL UK, J P KENNY UK

EPC Contractor: L&T ECC GROUP (L&TGULF& L & T VALDEL), PUNJLLOYD LTD (SIMON CARVES), KSSIPL

#### Project:

**BARMER SALAYA PIPELINE PROJECT (BSPL)** – MANGALA PIPELINE DEVELOPMENT PROJECT (RAJASTHAN) expected production 1, 80,000 barrels per day, **USD 2.8 Billion** approx., key financial instrument by World Bank.

- **680 km of 24" dia. (API5L-X65) world's first largest oil pipeline to feature continuous insulation and heating using Skin Effect Heat Management System (SEHMS) with intermediate pumping station at Viramgam (Gujarat).**
- 8" gas pipeline running all along the route from Rageshwari gas fields and providing fuel to SEHMS stations.

#### ➤ Construction & Commissioning Management:

- Key responsibilities for field engineering coordination of cross country pipeline and crossings of an EPC phase of contract.
- Reviewed & approved for Pipeline alignment, typical and individual crossing drawings pipeline construction drawings, various method statements for execution of Pipeline construction and provided site approval of crossing and defined methodology for major crossings.
- Monitored progress of pipeline construction and field engineering activities of pipeline & all types of crossings and was accountable for implementation of project specification on ground.
- Responsible for allocation of free issue material to EPC contractors Viz...pipes, induction bends and specialized SEHMS material.
- Responsible for the development of integrated commissioning plans including the scope of commissioning activities, duration, interlinked activities, resources required, constraints as well as availability of tools and machinery.
- Oversee the preparation of commissioning schedules based on the quantum of job and duration for each activity as well as prioritize system completion requirements in order to steer construction completion.

- Responsible & accountable for preparation of procedures for systematic and sequential pre commissioning / commissioning / start-up of Pipeline and Viramham Terminal. Ensure that all safety and precautionary requirements and procedures are followed during the commissioning process.
- Continual liaisoning with Operations & Maintenance department to facilitate handling and taking over of project sites.
- Construction of Civil & Piping works in valve station, Monitored & ensured timely completion of all civil construction of above ground installations / buildings.
- Commissioning of **SEHMS: (Skin Effect Heat Management System) for entire pipeline**. Reviewed design and construction methodology. Hands on experience in installation & commissioning of SEHMS system in crude oil pipeline including successful SEHMS test Viz... HIPOT & MTDR (circuit mapping) etc...
- Liaisoning with relevant government authorities for secondary road crossing for approval of crossing methodology.
- Reviewed Daily / weekly / monthly progress reports, prepared construction statistics to achieve targeted progress.

➤ **Operation & Maintenance Management:**

- Ensuring Implementation of the Work Permit System in all shifts. Through knowledge of e-Permit to Work system and delivered role of Issuing as well as Area Authority and also Performed as a "Forward Controller & Pipeline repair specialist" for 5 years in IRT Rota of 5 tier risk matrix of "EMERGENCY WORK SITUATION" and implementation of a health, quality and assurance system.
- Responsible & accountable for Bulk Movement of Crude Oil via 24" SEHMS heated 600 KM long pipeline and Joint Gauging of Petroleum product Tanks, quantification of the same by Out turn reports and comparing them with the station flow System; Ensuring the product compliance to the Client & Company specifications as per COSA (Crude Oil Sales Agreement) and finalizing Daily Progress report (DPR).
- Responsible & accountable for Viramgam Tank farm related activities including Bulk Movement of crude Oil to Reliance , Essar and Indian Oil Corporation thru spur Lines etc.
- Monitoring & controlling pipeline parameters to meet day to day throughputs and ensuring to meet client monthly nominations.
- Oversee the Inventory management of consumable material through SAP R/3 which broadly includes coding, Clearing of GRN, raising PR, Floating RFQ, Analyze Vendors' and contractors' quotations, technically and evaluation of Technical Bids and Tenders and ensure timely deliverables of maintenance consumables as per Min/Max inventory requirement.
- Responsible for Planned Plant shutdowns Maintenance / Preventive maintenance (PM) / Corrective maintenance / Breakdown maintenance of all the Equipment's through SAP PM Module.
- Participated in RBI to identify the risk associated which are more likely to fail causing damage to personnel & environment in addition to expensive shutdowns of pipelines in consultation with DNV.
- Responsible for Preparing and implementation of pipeline integrity, inspection and maintenance outsourcing plan to support the planned activities in compliance of the Pipeline Integrity management / RBI yearly Plans and hands on experience in Integrated Pipeline repairs...
  - a) Involved in Major Annul Turn-around job.
  - b) Sectional cross country Pipeline pigging (Caliper / Routine Cleaning runs / EGP & CDP- IP).
  - c) Inspection & Monitoring of Pipeline Hotspots for A/G & U/G facilities & of LRUT.
  - d) Installation of bolted leak repair clamp and welded leak repair clamp on Live Pipeline.
  - e) Planned Installation of Numerous Hot tap jobs on Live Pipeline.
  - f) Relocation pipeline projects i.e. safely removal of Old section & replacing it by new pipeline section using double stopple & bypass line without interrupting the production.
  - g) Taking crude Oil tank out of service for bottom plate inspection & Pocket out 1st / 2nd shell inspection.
  - h) Chemical Injection.
  - i) Pigging Trap (Launcher & Receiver) and Block Valve Inspection & Hydro test.
- Independently lead for the Maintenance of Un-planned pipeline repair jobs Viz...
  - a) Retrieval of stucked pig during ILL of 8" fuel gas pipeline.
  - b) Executed emergency pipeline repair during Illegal pipeline taping by third parties intrusions.
  - c) SEHMS circuit blast (4KV) in the river bed having pipeline cover of 7 meters.
  - d) Complex Repairs of metal loss on trunk crude oil pipeline due to SEHMS blast penetrated in 1" SECT Tube & also in Main Line.
  - e) Ingress on water in 1" SECT tube of crude Oil line for more than a kilometer length and SEHMS cable insulation deteriorated resulting in failure of circuit.
  - f) Involved in maintenance of plant equipment's heaters, Gas compressors, pumps etc...
- Developed Standard Operation procedures (SOP) / Standard Maintenance procedures (SMP)/ Method Statement / Quality Control Procedures (QCP) for various Pipeline operations and maintenance routine activities & Continual yearly review to incorporate improvements (if any).
- Review P&ID/PFD's on Operational and Maintenance aspects.
- Implementation of ECDA (External Corrosion Direct Assessment) & ICDA (Internal Corrosion Direct Assessment) programme from conceptual up to execution for Non-piggable Pipelines.
- Successfully Completed Pre-commissioning, commissioning and steady state of operation for Crude Oil and Gas Pipeline, Viramgam & Radhanpur Terminal, intermediate pigging station, Custody transfer meter.

➤ **Designation: Manager- Field Engineering/Construction Coordinator**

**Employer:** KAZ STORY SERVICES PLC - KAZAKHSTAN.

**Duration:** MARCH 2008 to JANUARY 2009

**PMC/CLIENT:** KARCHAGANAK PETROLEUM OPERATING BV (KPO).

**EPC Contractor:** KAZ STORY SERVICES PLC

**Project:**

**KARCHAGANAK URALSK GAS PIPELINE PROJECT (KUGPP) – EPC of 148 KMs Long 20”dia (API5L X52 – 3LPE)**

**Natural Gas Pipeline project from, KPO refinery to Novensky and Local & Industrial consumers for up gradation of existing City Distribution Network.**

**Responsibilities Handled:**

- Establish preliminary requirements for construction projects ensuring construction activities comply with project, local and international standards. Approval & Checking of the drawing for the codes/standards and design basis memorandum for the projects.
- Liaison with internal departments to determine construction project intent and scope of work.
- Active communication with other disciplines to optimize areas of interface, during the design development, review and check processes.
- Reviewed/Commented Alignment Sheets / crossing Drawings to ensure engineering / project specification aspects are met. & approval of same.
- Review and approval of P&ID drawing for launcher/Receiver, Pump House, Utility Lines, Tank Farm piping's etc. and noticed field changes to revise drawings with necessary correction.
- Ensure design packages meet the relevant safety, environmental standards.
- Understand the contract quality management system and ensure these requirements are met.
- Responsible for getting approved various Pipeline Alignment drawings, Crossing Drawings, Method statements, Quality control procedures, construction schedule, crossing schedules from clients.
- Pipeline Construction Coordinator and responsible for allocation of work/equipment to subcontractors, resources planning and overall construction Management.
- Preparation of work packages for all activities and provided guideline to construction supervisor and mainline crews.
- Responsible for floating RFIs / technical queries and resolving issues during engineering / construction phase of pipeline.
- Coordination of Engineering and Construction of .....
  - j) 3 no of HDD River crossings.
  - k) 5 no of Open Cut river crossings
  - l) 6 no of highway Thrust boring crossings
  - m) 31 Roads Open cut with/without crossing.
  - n) 4 intermediate Remote Valve stations/ Launcher & Receiving Stations.
- Managing Manpower-equipment to ensure progress is in line with planned schedule and to achieve milestones.

➤ **Designation: Manager- Construction**

**Employer:** PUNJ LLOYDS LIMITED - QATAR.

**Duration:** AUGUST 2007 to MARCH 2008

**PMT:** CONOCOPHILLIP.

**CLIENT:** Q CHEM II, Qatar Petroleum /RasLaffan Olefins Company (RLOC) & Qatar Petroleum.

**EPC Contractor:** PUNJ LLOYD LIMITED

**Project:**

**RAS LAFFAN OLIFIN COMPANY ETHYLENE PIPELINE PROJECT– EPC of 14” x129.6 KMs Long Ethylene and Butylenes pipeline. 10” x 5.1 KMs Long Ethylene and Butylenes pipeline, 3” x 5.1 KMs Long Ethylene and Butylenes pipeline running from RasLaffan to Messaid Industrial City.**

**Responsibilities Handled:**

- Executed project as construction manager in time and worked in close co-ordination with planning manager to ensure completion of the project on time as per approved schedule.
- Responsible to ensure that all phases of site activities are executed and Completed in accordance with Contract specifications and drawings, within the schedule and budget, originally allocated by the PMT.
- Monitors performance of the construction team and provided guideline to construction crews / supervisor, piping crew for initial execution of construction activities.
- Ensuring on-schedule Mechanical completion, monitoring risks/problems, manage and direct overall planning of construction activities to identify critical milestones and priorities.
- Regular review & monitoring of site activities, Project schedule, Sub Contractor work performance / services of subcontractors, and responsible for the planning, organization, and management of all activities optimizing manpower, materials, and equipment Requirements and assign resources required to meet the Project's goals including both internal engineering and external engineering consultants promoting a culture of ownership and teamwork.
- project, Coordination with main Contractor & Sub Contractor in Laying of Cross country Pipelines, Preparing Pre-bid & Monthly budget, do estimations Etc. Review progress on daily basis and reporting including preparation and issuance of daily and weekly Reports.

- Leded progress review meeting on weekly, monthly basis with client and fulfillment of contractual obligations in relation to the progress of works.
- Managed team of 200 + multi cultured person for the project and completed it on time. Handle simultaneous multiple constructions activities and prioritize work assignments ensuring works meet scheduled deadlines.
- Implement project management best practices and modify based on lessons learned.
- Provide overall leadership to aggressively drive execution of the project Activities in coordination with QAQC, Planning, P&E, Safety, Contract and Administration and other department of the project. Continually ensuring that practices, policies, strategy and services represent the client's best interest.
- Achieved project execution requirements including safety, cost, schedule, Quality and performance.
- Maintaining accurate assessment on site performance and proactively making Decisions and taking action as required.
- Aggressive approach and drive in the Construction and Pre commissioning Team.
- To estimate Manpower and Equipment's requirement for specific job.
- Floating of enquires receipt of quote and preparing vendor quote analysis with Respect to estimated quantity.
- Liasioning with various local parties Like Kaharama to coordinate activities including Monitoring / Supervising & providing technical support for obtaining permissions / clearances for relaying cross country pipeline and its associated collocated facilities in the same ROW Corridor without shutdown requirements to ensure existing pipeline shift operation is running smoothly and as per requirement of TDO.
- Liaise with National Gas distribution grid / QP operations, provided input to prepare design scope of hot/cold tie-ins with existing facilities, input to commissioning and demolition scope.
- Accountable for the quality, cost, scope and schedules of all work performed by consultants, and contractors.

#### ➤ Designation: Manager- Pipelines

**Employer:** RELIANCE INDUSTRIES LIMITED.

**Duration:** MARCH 2003 to AUGUST 2007

**CLIENT:** RELIANCE INDUSTRIES LIMITED.

**EPC Contractor:** PUNJ LLOYD LIMITED, STORY TRANS GAS (STG), CHINAPETROLEUM PIPELINES BUREAU (CPPB).

**Project:** EAST WEST PIPELINE PROJECT– EPC of 48" x1300KMs Long Natural Gas Pipeline Project.

#### Responsibilities Handled:

- Steering activities involved in pre project development including selection & finalization of pipeline route to ensure minimum pipeline length requirements avoiding reserved Forest, Populations & Major crossings.
  - a. Co-ordination with Consultant, Project Team for Preparation / submissions/ approvals of .....
    - Pipeline Route engineering Survey, Cadastral Surveys for laying of 48", 1300 Kms Long Gas pipeline from East Coast of India to West Coast up to RIL Jamnagar Refinery.
    - 3(1), Objection hearing, 6(1), Award and acquisition of RoU for Pipeline as per PMP Act (1962) for entire pipeline route.
    - Roads, Railways, Water body crossings (Canal & Rivers)
  - b. Responsible for obtaining forest permissions in close coordination with the Forest Department to with CCF & CF (MoEF) and also for Environmental Clearance for the project.
  - c. Responsible for obtaining all necessary permissions & approvals to be taken from Govt. authorities, statutory authorities for Railway, NH, SH, MDR, water bodies etc...
- Independently Leded pipeline RoU Opening activity, Award and focal point between client & contractor's construction manager for Opening of 200 Km of Right of Use In the state of Gujarat (under PMP Act 1962) and directly liasioning with competent Authority for RoU opening activities.
- Understand battery limit of contractor and vendors and execute the project with minimum deviation in scope of work awarded.
- Participate in design and construction review on proposals submitted from design consultants and assist in identifying related construction issues (Micro tunneling of Mindhola River in Gujarat).
- Supervised execution of pipeline crossing Viz...River crossing by HDD, National Highways by auger boring, Railways etc.
- Analyze and resolve complex and sensitive construction problems on site to meet project objectives. To bring to notice potential problems or delays and recommends solutions.
- Coordinate, delegate and negotiate with contractors and consultants to resolves disputes.
- Oversee the execution and administration of complex construction and services contracts.
- Liaising with the project evaluation team to facilitate the advancement of construction projects through various phases of implementation.

- Responsible to ensure that all site pipeline construction activities are executed and Completed in accordance with Contract specifications, Quality procedures and drawings for spread of 180 Km in the state of Gujarat out of 1300 Km.
- Liaisoning with other authorities, government agencies and utility providers before and during the construction phase to ensure construction objectives are met
- Responsible to coordinates and implements construction schedules, manning charts, and material and equipment requirements with pipeline EPC contractor and ensure they coincide with the overall established project schedules.
- Accountable for close monitoring of project schedule / plan and chase the contractor ensuring the project milestone are being achieved within stipulated period of defined timeframe.

#### ➤ Designation: Operation Engineer

**Employer: INDIAN OIL TANKING LIMITED.**

**Duration:** SEPTEMBER 1998 to MARCH 2003

**COMPANY:** INDIAN OIL TANKING LIMITED. (A Joint Venture between Oil Tanking GmbH, Germany & Indian Oil Corporation, India.

**An organization engaged in tank terminalling business in India.**

#### **Responsibilities Handled:**

Good command over operation of petroleum products pipeline; Responsible as Shift In Charge of daily operation, Monitoring and Delivery of cross country Petroleum Product Pipe line; ensuring compliance to the Monthly delivery plan given by the oil Marketing Companies.

Manage day to day Shift operations at jetty and terminal to ensure quality services with compliance to HSE standards and responsible for Monitoring / Supervising Operations in:

- Unloading imported petroleum liquid from tanker ship in to storage Tanks.
- Bulk storage of petroleum liquids.
- Bulk movements of petroleum liquids as per client nomination via.....
  - a. Cross country pipelines & Tanker trucks.
  - b. Tanker wagon loading / Unloading
  - c. Barge Loading
  - d. Intertank transfer.
- Responsible for Jetty Berthing / Un-berthing of vessels & Documentation related to jetty operations.

Coordinated maintenance and shutdown requirements to ensure shift operation shall run smoothly and to ensure nomination are met for the shift. Inculcate a strong sense of customer service through the department and manage customer service operations to render quality services.

Responsible in controlling / monitoring petroleum products storage / distribution operations including loading / unloading of tank trucks, quality / quantity check, scheduling of TTs as per customer requirement and the timely replenishment of stock without any interruption in sales.

Responsible for routine inspection & Maintenance of Fixed and Floating Roof Tanks as per statutory requirements i.e. taking tank out of service for inspection followed by cleaning / Inspection and repairs and also taken up chemical cleaning for converting black oil tank into white oil tank.

Managed vessel operations, their quick turnaround and loading / unloading of valuable, hazardous / sensitive cargos like HSD, Naphtha, FO, Kerosene, MS and Chemicals.

Interact with customers to understand their perception and utilize their inputs to make improvements in the processes / systems.

Liaisoning with various stakeholders Viz... Shipping agencies, Clients, ports Authorities, Third party Surveyors, Custom, CHA and Foreign Sea Going vessel crew etc. to achieve targets and smooth operation and extreme compliance of IMO and applicable statutory.

Through knowledge of Hydrocarbon accounting, Bunker Delivery report, dispatch order for TT and Wagon loading etc. Monitor, control and analyze loss / gain incurred during shipment and tank farm / gantry's cargo handling operation.

Supervised Erection and Commissioning of .....

- Dock pipeline from JNPT Terminal to IOTL Terminal (24" Dia & 13.5 Kms Long)
- Tank farm having Capacities of 3, 00,000 KLS for Black Oil and White Oil Hydrocarbons.
- Intermediate Booster Station between Jetty and Terminal.
- Marine Loading Arms, Pig Launcher / Receiver Stations.
- Pipeline road & Railway crossing.

#### ➤ Designation: Operation Officer

**Employer: RELIANCE INDUSTRIAL INFRASTRUCTURE LIMITED.**

**Duration:** JULY 1993 to SEPTEMBER 1998

**COMPANY:** RELIANCE INDUSTRIAL INFRASTRUCTURE LIMITED (Formerly Chembur Patalganga Pipeline Limited).

**An organization engaged in UPSTREAM & DOWN STREAM business in India.**

**Responsibilities Handled:**

Controlling & monitoring the transfer of Petroleum products through 8" twin pipelines on **SCADA** & handling tank farm activities independently in:

- Unloading imported petroleum liquid from tanker ship in to storage Tanks.
- Bulk storage of petroleum liquids.
- Successfully managed simultaneous operations of loading of multiple oil tanker and also extensive experience of receipt of petroleum product through interface operation to ensure reduction of inter-product interface.
- Manage tank loading / unloading, cleaning and product change over operations in as short a time as possible to achieve cost savings.
- Established and Maintained TLCU (Tank Lorry Calibration Unit) and get certification from Weights & Measurement Dept. to Carry calibration and certification of Tanks trucks through excellent co-ordination with W&M and utmost care for accuracy of equipment's.
- Bulk movements of petroleum liquids via.....
  - Cross country pipelines & Tanker trucks.
  - Tanker wagon loading / Unloading
  - Barge Loading
  - Intertank transfer.

Supervised Erection and Commissioning of .....

- Spur line from Cross country pipeline to JNPT (8" Dia & 20.0 Kms Long)
- Tank farm having Capacities of 1, 00,000 KLS including floating & fixed roof petroleum product tanks for Naphtha & Kerosene (30 Meter Dia).

### ACADEMIC

1996	B.E (Chemical Engg.)	(Mumbai University)
1993	Diploma (Chemical Engg.)	(Maharashtra Board of Technical Exam)

*Degree Certificate apposite is done from Ministry of External Affairs & HRD.*

### OTHER CERTIFICATION

- Credit in NEBOSH – OIL & GAS SAFETY.
- RBI for Pipelines & its associated Co-located facility / Assets.
- Bowtie Risk Analysis Course by CGE Risk Management Solutions BV, Netherland.
- Workshop on "Accidents: Causes, Investigation and prevention" by IBC.
- Workshop on "Pipeline Integrity & Corrosion management" by Pristine.
- Workshop on "Corrosion and Corrosion Control in Pipelines, Topside Facilities & Subsurface Equipment" by Abdel M Aziz.
- Certification course on Advanced Life saving First Aid & CPR by First Aid Training Institute.
- DNV Certified auditor for ISO 9001:2000 and ISO 14001:2004, ISO 18001.
- In depth knowledge of national and international codes / Standards Viz... ASME B.31-3, B.31-4, B.31-8, OISD 141, API 650 etc...

### COMPUTER SKILLS

<b>Computer</b>	: MS Office, Internet Operations, SCADA / DCS Operation AutoCAD2007, ROU master, Primavera (P5) , M S Office, SAP PM .
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### PERSONAL DETAILS

<b>Date of Birth</b>	: 25th Jun1975
<b>Gender</b>	: Male
<b>Marital Status</b>	: Married
<b>Nationality</b>	: Indian
<b>Languages Known</b>	: English, Hindi, Marathi and Gujarati. Excellent presentation, written and communication skill.
<b>Passport No.</b>	: R 2989212 Valid up to 13/08/2027
<b>Present Address</b>	: E/702, 7th Floor, Sharanam 4, near Seema hall, off 100 feet Road, Satellite Ahmedabad – 380015. , Gujarat, India.
<b>Permanent Address</b>	: 2, Jineshwar Darshan, Near Param Keshav Baug, Navroji Lane, Ghatkopar (West), Mumbai – 400 086, Maharashtra, India.
<b>Country Visited and worked</b>	: Qatar (Doha), Kazakhstan (Urals, Almaty), and India.