

Santhosh Kumar Krishnan
Instrument Design Engineer
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Key Skills

Having 14+ years of experience in control & instrumentation design engineering ranging all the major aspects of the project implementation covering – detailed engineering, Construction and commissioning, Technical bid evaluation, vendor drawing reviewing and approvals, shop inspection of critical instruments commissioning assistance etc. Hands on experience on Smart Plant Instrumentation.

Educational Qualification.

Name of Examination	Name of Institute	Name of University	Major Subjects
B-Tech in Instrumentation & Control Engineering	SNM IMT, Maliankara, Ernakulam, Kerala, India 2007 pass out	Mahatma Gandhi University, Kottayam India	Instrumentation and Control system

Job Responsibilities:

- Preparing Proposal (Scope of work, Tagged MTO, Bulk MTO, WCR, Electrical Load Calculation, Software Requirement, Eng. Execution Plan, Risk Register and Man hour Estimation) Document for Bidding.
- Mechanical Package (Scrapper Launcher Package and Slop Tank) Vendor Document Review.
- Preparing the Specification for Multiphase Flow Meter (MPFM)
- Preparation of Instrument index Instrument IO list, Process Data and Instrument specification sheet (ISS).
- Selection & Sizing of various Instruments like Control valves, Flow meters, Thermo wells, etc.
- Preparation of Inquiry Requisition form for Instruments.
- Evaluation of Supplier Offers and Preparing Technical Query.
- Attending the Vendor Meeting
- Preparation of Technical Bid Evaluation (TBE) for summarizing the technical offers of various bidders.
- Preparation of Purchase Requisition (PR).
- Vendor drawing review & Coordination with other disciplines.
- Preparation of Junction box details, Cable tray layout design. Detailed ILDs, cable Schedules & Interconnecting wiring diagrams for Foundation Field bus and Conventional Instruments.
- Preparation of Process Hook-Ups, Pneumatic Hook-Ups. And Material Take-off list (MTO).
- Preparation of the Bulk MTO
- Preparation of Instrument mounting typical Interaction with Project, Proposal, Procurement & Construction team.
- Able to lead a team in Instrument Calibration, Installation, Impulse tubing/piping, Cabling, Glanding, Termination, Continuity tests, Loop checking and commissioning activities in accordance with AFC Drawings. Conducting Toolbox

Talks and motivating the team to work in a Health and Safety conscious manner and abiding by the Quality, Safety and Environmental Policies. Coordinating the activities in the assigned area to achieve a steady work progress, Preparation of Commissioning test documents, daily progress sheets, As built of drawings in adherence to the Quality procedures.

- SPI Database initialization and Database Backup.

Experience Overview

1. Larsen and Toubro India Ltd., Mumbai. (19th September 2018 to Till the Date)

Instrument Design Engineer

Sr. No	Project	Responsibility	Client
1.	CRPO62-Replace Hydraulic ESD Systems- Marjan Offshore Platforms	• RFQ, vendor offer review & TQ Preparation, Vendor meeting Attending for following item a. Fire and Gas Devices • Fire and Detection Layout • Instrument Points and Lines	M/S. Saudi Aramco
2.	Marjan Package-02(Marjan Increment Program-Offshore Oil Facilities)	• RFQ, vendor offer review & TQ Preparation, Vendor meeting Attending for following item a. Vortex Flow Meter. b. RTD and Thermowell. c. Multiphase Flow Meter (MPFM) • Purchase Requisition, Vendor offer review , Technical Query Cycle, TBE, NMR Cycle, Vendor Document Review.	M/S. Saudi Aramco
3.	1.CRPO36 -ZULF Decks and Associated Pipelines &Umbilical 2.CRPO37: -Replacement of Eleven (11) BRRP Pipelines.	• Purchase Requisition, Vendor offer review , Technical Query Cycle, BE, NMR Cycle, Vendor Document Review. a. Electronic Transmitter (PIT, PDIT&TIT) b. RTD and Thermowell. c. Pressure Regulating Valve. • Mechanical Package (Scraper Launcher Package and Slop Tank) vendor Document Review. • Junction Box Grouping • IFC Drawing Submission to Customer.	M/S. Saudi Aramco
4.	CRPO27-Three Gas PDMs in HASBH & ARBI Field	• Preparation of Instrument Index, Specification sheet, IO list, Instrument Cable Block Diagram Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI. • System Vendor Drawings Review • Junction Box Grouping • Yard Support from Office	M/S. Saudi Aramco

Proposal Engineer

Sr. No	Project	Responsibility	Client
1.	CRPO BID INVITATION NO. 82 for ZULF AH WEST OIL FACILITIES BI-10-07868	Preparing Proposal Document for Bidding (Scope of work, Tagged MTO, Bulk MTO, WCR, Electrical Load Calculation, Software Requirement, Eng. Execution Plan, Risk Register and Man hour Estimation).	M/S. Saudi Aramco
2.	CRPO BID INVITATION NO. 83 for ZULF AH EAST OIL FACILITIES BI-10-07868	Preparing Proposal Document for Bidding (Scope of work, Tagged MTO, Bulk MTO, WCR, Electrical Load Calculation, Software Requirement, Eng. Execution Plan, Risk Register and Man hour Estimation).	M/S. Saudi Aramco
3.	CRPO BID INVITATION NO. 74 THREE (3) OIL PRODUCER (PDMs) AND ASSOCIATED FACILITIES IN ABSF, SFNY (BI-12-21000)	Preparing Proposal Document for Bidding (Scope of work, Tagged MTO, Bulk MTO, WCR, Electrical Load Calculation, Software Requirement, Eng. Execution Plan, Risk Register and Man hour Estimation).	M/S. Saudi Aramco
4.	GALLAF PROJECT- BATCH3 - JA and KA Platforms	• Reviewing Bid Document and Preparing the TQ • Preparing Tagged BOQ • FEED Document verification • Preparing RFQ and vendor offer Review	M/S. North oil Company
5.	CRPO-68: THREE (3) OIL PRODUCER & TWO (2) WATER INJECTION (PDMs) AND ASSOCIATED FACILITIES IN ZULF, RBYN, MRJN	Preparing Proposal Document for Bidding (Scope of work, Tagged MTO, Bulk MTO, WCR, Electrical Load Calculation, Software Requirement, Eng. Execution Plan, Risk Register and Man hour Estimation).	M/S. Saudi Aramco
6.	CRPO BID INVITATION No. 62 FOR REPLACE WELLHEAD PLATFORMS HYDRAULIC ESD SYSTEMS –MARJAN FIELD–BI-10-10059	Preparing Proposal Document for Bidding (Scope of work, Tagged MTO, Bulk MTO, WCR, Electrical Load Calculation, Software Requirement, Eng. Execution Plan, Risk Register and Man hour Estimation).	M/S. Saudi Aramco
7.	CRPO-58: - MRJN TP-14 & TWO PDMS with Associated Facilities.	Preparing Proposal Document for Bidding (Scope of work, Tagged MTO, Bulk MTO, WCR, Electrical Load Calculation, Software Requirement, Eng. Execution Plan, Risk Register and Man hour Estimation).	M/S. Saudi Aramco
8.	CRPO-57: -one MRJN PDM,4 MNIF SWOS and Associated Facilities.	Preparing Proposal Document for Bidding (Scope of work, Tagged MTO, Bulk MTO, WCR, Electrical Load Calculation, Software Requirement, Eng. Execution Plan, Risk Register and Man hour Estimation).	M/S. Saudi Aramco
9.	CRPO-54- Two SFNY PDM Upgrade,3 New PDMS,7SWO,1 Single Well Upgrade and Associated Facilities.	Preparing Proposal Document for Bidding (Scope of work, Tagged MTO, Bulk MTO, WCR, Electrical Load Calculation, Software Requirement, Eng. Execution Plan, Risk Register and Man hour Estimation).	M/S. Saudi Aramco

2. SNC-LAVALIN Engineering India Pvt. Ltd., Mumbai. (January 2018 to September 2018) **Instrument Design Engineer**

Sr . No	Project	Responsibility	Company	Client
1	WEST QURNA I – INITIAL OIL TRAIN (IOT) PROJECT	Preparation of Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S.SNC-LAVALIN Engineering India Pvt. Ltd., Mumbai	M/S. EXXON Mobil Iraq Limited (EMIL).

3. Monarch Techno Engineering Solutions Pvt.Ltd. Navi Mumbai. (December 2015 to August2017)

Instrument Design Engineer

Sr. No	Project	Responsibility	Company	Client
1	Integrated Refinery Expansion Project (IREP), Kochi Refinery,BPCL	SPI Database Initialization and taking SPI Database Back up and Preparing Project Deliverables in SPI Database	M/S. Siemens, pune M/S .Dresser-Rand M/S .Driplex Water Engg.	M/S .Engineers India Limited, Delhi
2	YANBU RAMT Project	SPI Database Back up and Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation	M/S .Yokogawa Saudi Arabia	M/S. JGC Gulf Engineering Co. Ltd
3	Lower Fars Heavy Oil Development Program Phase 1 (60 MBOPD)	SPI Database Initialization and taking SPI Database Back up and Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation	M/S .Petrofac Mumbai	M/S .Kuwait Oil Company
4	RIL-Crygenic Ethane Receipt & Storage Facility Project	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. Detection Instruments (India) Pvt. Ltd,Mumbai	M/S. Reliance Industries Limited,Dahej
5	LR Zero Liquid Discharge Project	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. KENTZ SNC LAVALIN Group, Mumbai	M/S. Laffan Refinery Company Limited
6	EPC for Mender Field Development Project Phase 1	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. Worley parsons India Pvt.Ltd,India	M/S. China Petroleum Engineering & Construction Corporation.

4. Inventive Engineering & Technology Pvt. Ltd, Pune, India. (Apr 2013-Dec 2015)

Instrument Design Engineer

Sr . No	Project	Responsibility	Company	Client
1	PETRONAS Floating LNG Project	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. Emerson Export Engineering Centre, India	M/S. PETRONAS Floating LNG 1 (L) Limited
2	1.Kearl Expansion Project 2. Kizomba Satellites Phase 2 FPSO Project. 3. Kizomba Satellites Phase 1 As Built, FPSO Project.	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. Emerson Export Engineering Centre, India	M/S. AMEC Paragon, Canada.

3	Sakhalin 1 Project Arkutun -Dagi Field Development FPSO Project.	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. Emerson Export Engineering Centre, India	M/S. Worley parsons, Canada.
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5. Nice Consultancy, Thane, India. (May 2012-March 2013)
Instrument Design Engineer

Sr. No	Project	Responsibility	Company	Client
1	1. North Rankin Platform A 2. CWLH Redevelopment FPSO Project OKHA	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. Emerson Export Engineering Centre, India	M/S. Trans field Worley. Australia
2	North Malay Basin Bergading CPP WHP EPCIC	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. Emerson Export Engineering Centre, India	M/S. Hess Exploration & Production Malaysia B.V.
3	1. RIL DMD N2O2 Phase-4 2. PTA 5 & PTA 6 AT DMD	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. Emerson Export Engineering Centre, India	M/S. Reliance Industries Limited, Dahej

6. Accurate Instrumentation and Control Engineering Pvt. Ltd., Cochin. (August 2007-April 2012)
Instrument Design Engineer

Sr. No	Project	Responsibility	Client
1	Refinery Expansion Project.	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. Petroleum Development, Oman
2	60 KLPD Distilleries.	Site supervising for Erection, Pre commissioning and commissioning	M/S. PRAJ Industries India Ltd, Pune
3	BCPA-2 platform	Preparation of Instrument Index, Specification sheet, IO list, Junction Box and Panel Wiring, cable schedule, loop drawing Generation using SPI	M/S. ONGC, Mumbai, India
4	MHN LQ 150 Persons Living Quarters	Site supervising for Erection, Pre-commissioning and commissioning	M/S. L&T Hazira Manufacturing Unit, Surat.
5	500 KLPD Distilleries. SPY Agro Industries, Kurnool, AP	Site supervising for Erection, Pre commissioning and commissioning	M/S. PRAJ Industries India Ltd, Pune
6	CCR Cyclemax Regeneration System Cemp II	Site supervising for Erection, Pre commissioning and commissioning	M/S. Technip KT India Ltd, Noida

Other Qualification

- Intergraph Smart plant Instrumentation (IN Tools 7.0, 8.0 & 9.0)
- Others: MS Office Suite of Tools

Personal Details

- Age & Date of Birth : 37 & 06-04-1984
- Gender : Male
- Nationality : Indian
- Marital Status : Married
- Passport No. : Z4137662 (OLD Passport No.G5722810)
- Personal Trait : Confident,Dedicated,Hardworking
- Languages known : English, Hindi, Malayalam, Tamil &Telugu

Declaration:

I, hereby, declare that the personal, academic & Professional details furnished above are true and correct to the best of my knowledge.

Place: Mumbai

Santhosh Kumar Krishnan