

Anoop Satheesan

Piping/Pipeline Engineer



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Languages

- English
- Hindi
- Malayalam

Career Highlights

- **7 years** of experience in overseas **offshore & onshore** oil & gas/**petrochemical** fields.
- Experience in **Piping & pipeline** sector.
- **Approved Pipeline Engineer in ADNOC ONSHORE**
(ALCO-ED-NE-15606.02-1238)

Summary

Experienced Piping/Pipeline Engineer with 7 years of EPC experience in Oil & Gas field, including Engineering coordination, construction & pre-commissioning in both onshore & offshore. Seeking for a challenging platform in which I can utilize my acquired skills and knowledge of oil & gas industry.

Areas involved

- Piping construction.
- Pipeline construction.
- Engineering interphase.
- Pressure Testing & Pre-commissioning.
- GRE/HDPE pipeline construction.
- Shut down/TA experience in various clients.
- Red markup& as built preparation.
- Procurement coordination & review
- SPIR coordination, review &management.
- Engineering deliverable reviews.
- 3LPP coating, steam tracing etc.

Roles & Responsibilities

- Conversant with Safety Engineering and Quality criteria for construction of plant piping and pipelines.
- Review & release of 30%,60% & 90 % IFC engineering deliverables.
- Planning& Execution of Piping, Structure, Static equipment & pipeline works.
- Familiar with P&ID, GA drawings, Piping Isometrics/layouts, Structural drawings, Equipment drawings & Alignment Sheet.
- Preparation of Tie-ins Packages, Hydro test package and fabrication Packages.
- Preparation of Piping weld map markup & release for fabrication.
- Preparation & review of MTO for pipes, fitting, valves & supports.
- Techno-commercial bid evaluation and preparation of comparison report.
- Preparation on method of statements & procedures in line with International/Project Standards.

Experience

A. TARGET ENGINEERING CONSTRUCTION COMPANY. LLC ABU Dhabi (2017 Mar-present)

PROJECTS INVOLVED

1. EPC WORKS FOR ANTEO RETROFIT BBTPE PROJECT. (Jan 2020 -present)

Client: **BOROUGE.**

Location: **Borouge-2, Ruwais Abu Dhabi.**

Designation: **Piping/Technical Engineer.**

Objective is to produce new product grade LLD Film FK1820/1828 through introduction of a proprietary catalyst BCZ60E in PE2. After implementation of this project, the PE-2 Unit can produce the BBTPE grades which are used in different applications; thus, enabling BOROUGE to offer a wider range of polyethylene products to suit different markets.

Objective will be achieved by installation of new equipments and modification of existing equipment.

2. EPC WORKS FOR PE-3 REVAMP PROJECT.

Client: **BOROUGE.**

Location: **Borouge-2, Ruwais Abu Dhabi.**

Designation: **Piping/Technical Engineer.**

Polyethylene unit produces HDPE and LDPE. As part of the PE- 3 Revamp, the production capacity will be increased from 540 kt/y to 720 kt/y.

The objective will be achieved by the following,

- Installation of new equipments, vessels and piping associated.
- Modification of existing facilities
- Installation of new Compressor unit
- Construction of new palletizing building and bagging machine unit installation.

3. INSTALLATION OF NEW CYCLONE 11-VV-403N in EU1.

Client: **BOROUGE.**

Location: **Borouge-2, Ruwais Abu Dhabi.**

Designation: **Piping/Technical Engineer.**

The Cyclone separator (11-VV-403) was installed to avoid carry over of small particles coming from dryer to 11-HP-403. Past experience shows that the Cyclone is able to control the particle carryover to 11-HP-403. Pressure drop across 11-HP-403 was stable when cyclone is inline, but pressure drops across 11-HP-403 increased when the cyclone was taken on bypass for cyclone cleaning purpose.

Proposed modification was to provide spare cyclone (11-VV-403N) which can provide the option to switch over in case of cleaning requirement.

4. TIE-IN WORKS FOR PE-4 BLACK PROJECT. (Shut down Scope).

Client: **BOROUGE.**

Location: **Borouge-2, Ruwais Abu Dhabi.**

Designation: **Piping Engineer/SD focal point.**

PE plants are capable of producing natural (white), coloured (yellow and orange) and black products. Due to fast growing demand of Borouge PE black grades, especially black pipe in China; it was forecasted that the PE black pipe demand will surpass the current PE1 capacity and PE3 revamped capacity. This lead to unmet demand in Borouge black products. By converting PE4 into black, Borouge will be able to catch up leadership position from 2021 onwards.

Scope was execution of piping tie-ins and installation of isolation valves within a time frame of 5 days.

5. MODIFICATION OF SLOP OIL SYSTEM DRAIN.

Client: **BOROUGE.**

Location: **Borouge-2, Ruwais Abu Dhabi.**

Designation: **Piping/Technical Engineer.**

The drain from Slop Oil Tank and Slop Oil Pump is likely to have high aromatics content for which the existing HDPE drain piping is not compatible. This has potential to cause failure of the drain system leading to HSE concerns due to leakage of Benzene and other hydrocarbon components in the environment.

So replacement of the existing HDPE pipe from Slop Oil Tank/pump drains up to the inlet of the CPI Feed Sump with GRE piping was done.

6. COOLING WATER LINE REPLACEMENT PROJECT.

Client: **BOROUGE.**

Location: **Borouge-2, Ruwais Abu Dhabi.**

Designation: **Piping/Technical Engineer.**

36" underground GRE line is supplying cooling water to all dimerization section. The underground GRE line was going below the foundation of catalyst quench section drum (15VV311 & 15VV312) structure and catalyst flare drum (15VV823) structure. The intention here was to reroute the GRE line away from the structure to avoid any structure damage in case of cooling water leak. The supply and return lines are taken straight to spent caustic package area at the same elevation and then it comes above ground where the pipe specification changes from GRE to carbon steel.

7. EPC FOR CAUSEWAY PIPELINES PROJECT (OFF SHORE)

Client: **ADOC JAPAN.**

Location: **Mubarraz Island (Off shore), Abu Dhabi.**

Designation: **Piping/Pipeline Engineer.**

ADOC intended to expand its existing facilities to increase production. As part of the causeway project, four (18", 12", 10" & 6") new gas pipelines laid underground in the causeway between Mubarraz island, GA terminal and the AR site terminal. The main objective of these pipelines are to transfer the excess sour gas from MUB to AR to increase gas injection capacity

PROJECTS INVOLVED

1. EPC FOR BAB FAR NORTH CO2 INJECTION PILOT PROJECT.

Client: **ADCO**(ADNOC ONSHORE presently).

Location: **Habshan-Rumaitha, Abu Dhabi.**

Designation: **Pipeline Engineer.**

A pilot project has been initiated with the objective of gathering necessary technical data to assess the effectiveness of CO2 gas injection, in enhanced oil recovery (EOR) from BAB reservoir, with two new CO2 pilot flanks. Each flank consists of two CO2 alternating water injection wells (WAG) and one producer wells. In which main 8" CO2 line of almost 73 km is laid. And the 6" oil production line is connected to a 20" main oil producer line in RDS-8. May be recorded as the first CO2 injection project in UAE.

Project involved construction of a launcher station, two block valve stations, plant piping in RDS-8, 4" lines from two water injection wells, 6" cladded pipe line, 8" CO2 pipe line Spanning 73 km and piping in 6 wells respectively.

2. FLARE GAS RECOVERY PROJECT- PHASE 2.

Client: **Abu Dhabi Refining Company, TAKREER.**

Location: **Ruwais, Abu Dhabi.**

Designation: **Junior Mechanical Engineer.**

To Eliminate the need of continuous flaring thus utilize the recovered gas for other operational purposes. Project Involved major activities like Compressor Skid, Motor Skid erection and Associated Piping, Structure and Pipe rack erections.

3. REPLACEMENT OF 8" OIL TRANSFER LINE WITH 12" FROM RDS-3 TO BCDS

Client: **ADCO**(ADNOC ONSHORE presently)

Location: **Habshan, Abu Dhabi**

Designation: **Junior Mechanical Engineer.**

Installation of new 12" pipe line of 24 KM after replacing 8" Existing pipeline from RDS 3 to BCDS in ADCO Habshan. Which includes the Installation of new 12" pig launcher with MOV's, SDV's, piping.

Educational Qualification.

- **B-Tech MECHANICAL ENGINEERING** from KMCT college of Engineering. (2009-2013)