

# ARUSH GAS TECHNOLOGY SERVICES

AGTS



FROM RESERVOIRS TO RENEWABLES :  
PIONEERING ENGINEERING TOWARDS  
A GREEN & CLEAN FUTURE



ISO 9001:2015  
BUREAU VERITAS  
Certification



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**Arush Gas Technology Services, LLP** is an ISO 9001:2015 certified Organisation providing support to the complete value chain of EPCI for the growing Natural Gas related business covering LNG floating units & Onshore Terminals.

AGTS was founded in 2016, by **Mr. Shreyas Sheth**; a member of the reputed Lalbhai Family from Ahmedabad, with the aim of providing comprehensive engineering and project management services. This initiative is in synchrony with the growing importance of Natural Gas projects in the Indian Ocean Region, Middle-East and South to South-East Asia.

Excellent capabilities in coastal & onshore engineering combined with access to in-house technology and stringent quality assurance procedures, form the foundation for our engineering success. AGTS LLP is also ramping up to meet the burgeoning need for carbon mitigation and reduction by developing technologies towards carbon capture for marine transport and industrial applications.

OIL & GAS  
INDUSTRY



HYDROCARBON STORAGE  
& TRANSPORT



CHEMICAL  
PRODUCTION



AGTS



GREEN HYDROGEN  
FACILITIES



MARINE & COASTAL  
INFRASTRUCTURE



CARBON CAPTURE  
& STORAGE

**1. Comprehensive Support:** From techno-economic feasibility studies & pre-bid engineering to FEED and Detailed Engineering, our services cover a wide range of projects in Oil & Gas and Green Hydrogen sectors.

**2. Innovative Design Solutions:** Our expertise extends to conceptual design for marine terminals, onshore facilities, and carbon capture systems, ensuring efficient extraction, transmission, storage, and processing of petroleum and green hydrogen.

**3. Risk Management:** We provide risk assessment, HAZID, HAZOP, and mitigation strategies, along with plant layout optimization and automation for enhanced safety and efficiency.

**4. Advanced Engineering:** Our services include structural integrity assessment, material selection, process safety management, and fire protection system design, ensuring compliance and reliability in industrial operations.

**5. Sustainable Solutions:** With expertise in thermal insulation, waste heat recovery, and water treatment, we offer environmentally friendly designs tailored to meet the needs of modern industrial facilities.



### **PROCESS ENGINEERING**

Feasibility studies to assess the technical and economic viability of new processes or process modifications, Process simulation to model and analyse different scenarios, conducting heat and mass balance studies, optimizing heat exchangers, reactors, and other process equipment, process equipment design, developing plant PFD and P&ID, process scale-up, process validation, etc.

### **PIPING & PIPELINE ENGINEERING**

Construction viability of pipelines & piping, detailed plans and layouts for piping systems, conceptualization and design to construction support across various industries, including oil and gas, petrochemicals, water supply, and more, selecting appropriate materials and determining optimal routing, performing stress analysis, selection of materials for pipes, fittings, and other components, developing inspection plans and procedures for quality control.



### **LOSS PREVENTION & SAFETY ENGINEERING**

Comprehensive risk assessments, HAZID, Hazard and Operability Studies (HAZOP), F&G Mapping, LOPA and Process Hazard Analysis (PHA), Process Safety Management (PSM), Designing and implementing fire protection systems, including fire detection, suppression, and emergency response plans., Designing, implementing, and maintaining safety instrumented systems.

### **CIVIL & STRUCTURAL ENGINEERING**

Our services cover all aspects of industrial developments, from optimizing site layouts and grading to foundation/support design, structural analysis, and design of buildings, shelters, roads, drainage system, etc. We are proficient in the creation of detailed drawings, specifications, constructability assessment, BOQ/MTO & CAPEX estimations. Our expertise encompasses compliance with relevant codes and standards, viz. AISC, ACI, IS, BS, etc including zoning regulations and environmental considerations



### **ELECTRICAL ENGINEERING**

From power distribution, Equipment Sizing, Protection, and lighting design to electrical load calculations, we offer end-to-end electrical system design services to ensure seamless integration and functionality. Expertise in Electrical Equipment Sizing & Selection as per relevant IS/IEC/NFPA/IE standards, Hazardous Area Classification, Substation Design, Emergency Power Distribution, AC UPS & Battery charger sizing, Earthing & Lightning Protection, Electrical Power System studies, Electrical BOQ & CAPEX

### **INSTRUMENTATION ENGINEERING**

Instrumentation and control systems for industrial processes and manufacturing facilities., distributed control systems (DCS), emergency shutdown system (ESD), supervisory control and data acquisition (SCADA) systems. Integrating control systems with plant operations, Instrument Selection and Specification, Control Panel, Data Acquisition Systems, communication networks for field instruments, controllers, Alarm Management.



### **MECHANICAL ENGINEERING**

Feasibility studies, CAPEX & BOQ development and designing heating, ventilation, and air conditioning (HVAC) systems for industrial buildings, thermal systems such as heat exchangers, boilers, and refrigeration systems, specifying mechanical equipment viz. pumps, compressors, and turbines, heat exchangers, including shell-and-tube, plate, and finned-tube types, Pressure Vessel Design and Analysis, Materials Selection, liquid and gas containment systems.

### **MARINE ARCHITECTURE**

Our engineering profile include the design of coastal infrastructure viz, marine terminals with jetty and associated structures for import & export operations of hydrocarbon products, navigational channel development and harbour protection schemes. We also provide support towards design of support vessels, barge-based FSU for LNG storage, conversion of LNGC to FSU/FSRU, mooring analysis, stability analysis, seakeeping studies, feasibility assessment, scope of work development, etc.



# KEY PROJECTS

AGTS



The Scope of Work for the Projects Includes All Aspects of Design, Including Pre-BID Engineering, Detailed Project Reports (DPR), Techno Economic Feasibility Reports (TEFR), Pre-FEED Studies, Front End Engineering Design (FEED), and Detailed Engineering (DE).

LNG IMPORT TERMINAL



ONSHORE REGAS & STORAGE FACILITY



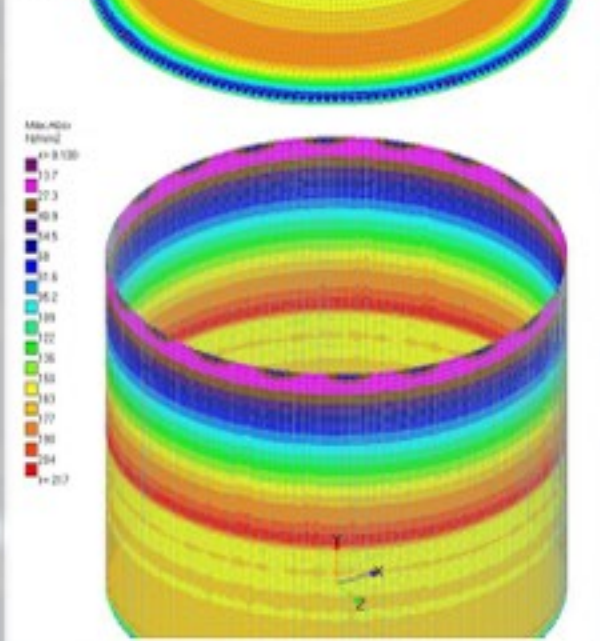
FSRU BASED LNG TERMINAL-STTS



FSRU BASED MARINE FACILITY WITH TUG PLATFORM & DOUBLE BERTH



FULL CONTAINMENT LNG TANK



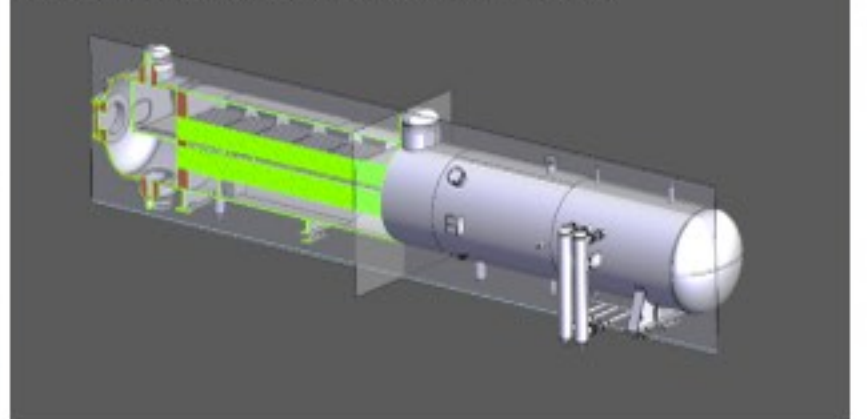
BARGE BASED FSU



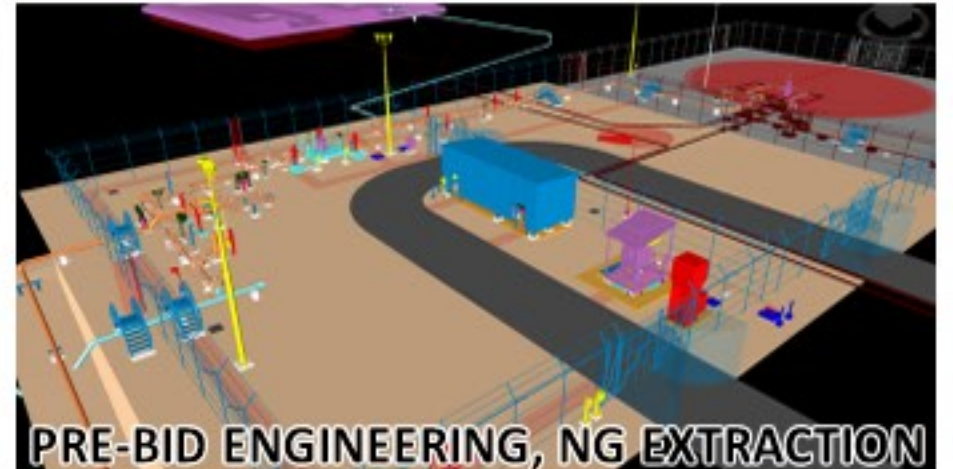
TANK FARM CONTROL ROOM



HEAT EXCHANGER DESIGN



PRESSURE VESSEL DESIGN





**SHREYAS SHETH**  
PRESIDENT

Mr. Shreyas Sheth is a prominent figure in the Indian industrial sector, serving as the Chairman and Managing Director at Amol Minechem Limited, a company that is part of the Lalbhai Group. He has over 36 years of experience in the Perlite industry, with a focus on filter aids, thermal insulation products, and on-site cryogenic insulation jobs worldwide.

Mr. Sheth is also the Chairman of Perlcon Premix Pvt. Ltd., a company that manufactures innovative building materials. Mr. Sheth holds a science degree in Chemistry and an MBA in Finance



**JYOTISMAN DASGUPTA**  
VICE PRESIDENT

Mr. Jyotisman Dasgupta is a professional with extensive experience in the maritime and oil & gas industries. He is a graduate in Naval Architecture with Honours from Indian Institute of Technology (IIT), Kharagpur, with a post graduate in offshore structural engineering and has held various positions in different organizations, including Senior Vice President and Chief Surveyor at Indian Register of Shipping and Head of the Upstream Marine Group of L&T Hydrocarbon Engineering Limited at Larsen & Toubro.

He is currently the President of the Institution of Naval Architects. (India)



**ARVIND KAUSHIK**  
ENGINEERING MANAGER

Mr. Arvind Kaushik is a process engineer with extensive experience in the design of thermal equipment, process optimization, energy conservation, and dynamic simulation of process and power plants. He is a postgraduate Chemical Engineer from IIT Kanpur, with a Bachelor's degree in Chemical Engineering from IIT Roorkee.

Mr. Kaushik has worked in various reputed organizations, including Hindalco Industries Limited, The Energy and Resources Institute (TERI), Sulzer India Limited, and Forbes Marshall. He was Senior Deputy General Manager (R&D) at Larsen & Toubro Limited.

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LRQA



NAYARA ENERGY



For a healthy growing nation



Benchmarking Infrastructure



KBR



ARCHIMEDES ENGINEERS



SRF  
We always find a better way



EnProCon  
engineering • procurement • construction

VEDAM



L&T Infra Engineering



DIAMOND SHIP MANAGEMENT



## Lets Talk

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