





QUOSIT, established in 1988 with headquarters in Bari (Italy), is a multidisciplinary Engineering Company, operates in industrial plants engineering and construction. QUOSIT has specialization in electrical and instrumentation design, control systems and industrial automation, system integration and Information Technology. QUOSIT Clients production units range from Chemical, to Petrochemical, Pharmaceutical and Oil & Gas sectors. QUOSIT is member of ANIMP "Associazione Nazionale Impiantistica Industriale".



QUOSIT aims to be an active partner for its potential clients cooperating with them in the delicate search of the most efficient solutions to their needs. The ability to understand and develop the project requirements, the flexible and highly reactive structure and complete mastery of the know-how of design-

manufacture of its products are the characteristics that distinguish QUOSIT.

Thanks to capabilities of technical and commercial operating team, **QUOSIT** has been offering a valid support to address and overcome the latest technological developments in the global challenges for more than 30 years. Organization of **QUOSIT** responds positively to the need for optimization of work processes thus achieving high levels of quality in provided services.

QUOSIT history is rich of evolutions and transformations, nevertheless **QUOSIT** adheres to values of expertise and technological innovation. **QUOSIT** core values are:

- Innovation.
- Expertise.
- Continuous improvement.
- Ability to Problem Solving.
- Integrity.
- Team work.
- Accountability.

QUOSIT is a dynamic Company that has been able to understand global market requirements striving for innovation in new challenges.





QUOSIT, thanks to decades of experience, is capable to offer engineering services for industrial plants developments and revamping. **QUOSIT** provides customers with full support in any stages of Projects, from feasibility phase of the investment to Basic Engineering, FEED and Detail Engineering, to assistance for commissioning. Main activities include:



- Process Engineering.
- Mechanical, Piping, Civil, Structural, Electrical, Instrumentation detail engineering complete of sizing and calculations, technical datasheets for materials purchasing, plan detailed layouts, piping isometric drawings, stress analysis calculations, supports dimension, 3D modelling, MT/BT networks calculations, lighting, earthing & lightning calculations, functional and single wire diagrams, control valves, safety valves, flow measurement calculations, instrument database, wiring diagrams, material take-off, installation details.
- Industrial automation Detail design with preparation of technical and general specification for DCS control system, SCADA e safety system, control & safety system architecture, system sizing, Foundation Field-bus architecture, database and I/O list, logic diagrams (narrative, flow chart, logic diagrams), graphic and alarms displays, reports, FAT and SAT procedures.
- Control & safety system hardware design.
- Control & safety system (DCS, SCADA, PLC, ESD) software configuration.
- Technical assistance during Safety review sessions (Hazid, Hazop, SIL allocation)
- Technical assistance for plants qualification, according to GMP standard, with preparation of IQ (Installation Qualification), OQ (Operational Qualification), FDS (Functional Design Specification), HDS (Hardware Design Specification).
- Assistance to the Customer in the activity of materials purchasing and subsequent factory testing.
- Overall project coordination and planning times.
- Construction supervision.
- Final Testing.
- Technical assistance to plant Commissioning & Start-Up.
- Training activities and Control & Safety Systems Maintenance.

Based on its lean organization, **QUOSIT** is capable to provide lump sum turn-key services in case of Projects of adequate size.



QUOSIT staff includes highly qualified specialists, mainly Engineers, having engineering background gained through experiences in major Italian and International Engineering Companies.



QUOSIT has a yearly engineering man-hours capability of:

•	Process Engineering	4000 hours
•	Mechanical and piping Engineering	13000 hours
•	Civil Engineering	4000 hours
•	Electrical Engineering	15000 hours
•	Instrumentation Engineering	12000 hours
•	Automation Engineering	8000 hours



QUOSIT is capable to provide Client with Process Engineering services, which includes:

- Consideration to Process safety in any stage of the design.
- Based on Project phase (Feasibility, Basic, Front-End Engineering, Detail), definition of Process Design deliverables, activities and schedule.



- Interface with Client Process Engineering personnel.
- Assistance to Clients in the development of the Project Scope of Work.
- Development of Basis of Design and Design Basis Memorandum.
- Identification of appropriate range of process alternatives.
- Optimization of design and cost.
- Coordination and development of Process Design activities and Process deliverables in cooperation with Process Team and other Disciplines. Following documents are under Process Department responsibility, but not limited to: Heat and Material Balance, Utilities Balance, PFDs, P&IDs, Equipment List, hydraulics, Equipment calculation and Process Datasheets, Instruments calculation and Process Datasheets, Safety Equipment (i.e. Safety Valves) calculation and Process Datasheets, modelling of Process through dedicated software, Control Philosophy, Complex loop description, Cause and Effect Matrix, Flare Report, Fluid List.
- Assistance in identification of long lead equipment.
- Review of completeness and accuracy of Process deliverables.
- Design reviews with Clients and other Disciplines.
- Support of other Departments and Disciplines on Process and Project aspects.
- Cooperation and support to Vendor and Contractors in the development of their packages and scope of supply.
- Attendance to Project Review Meetings for coordination of activities.
- At the proper stage of the Project, attendance to HAZOP meetings, implement HAZOP recommendation, and attend SIL Assessment meetings.
- Identification and recommendation of requirements for Plant test runs.
- Value Engineering and Constructability Reviews.
- Assist in Plant pre-commissioning, commissioning.



In Industrial automation field, **QUOSIT** is capable to provide engineering services that include:

 Detail design with preparation of technical and general specification for DCS control system, SCADA e safety system, control & safety system architecture, system sizing,



Foundation Field-bus architecture, database and I/O list, logic diagrams (narrative, flow chart, logic diagrams), graphic and alarms displays, reports, FAT and SAT procedures.

- Control & safety system hardware design.
- Control & safety system (DCS, SCADA, PLC, ESD software configuration: DCS ABB (INFI90, AC800F, AC800M, TENORE/PGP, AC800XA), Emerson Process Management (DELTA-V, OVATION), Yokogawa (CENTRUM), Honeywell (TDC3000), Siemens (PCS-7), PLC Rockwell Automation, Siemens, Schneider Electric (Modicon), ESD F&G Hima, Siemens S7-400FH, ICS TRIPLEX, Invensys TRICONEX.
- Materials supply.
- Supervision construction activities, materials and systems Final Testing, technical assistance to Commissioning & Start-Up.
- Training activities.
- Control & Safety Systems Maintenance.

QUOSIT is qualified for design and integration of HIMA systems.



Since the beginning of its activity, **QUOSIT** has cooperated with the most important international Engineering Companies and industrial Production Companies, included in framework agreements as well:

- SAIPEM
- TECHNIP ENERGIES
- EUROAPI
- SANOFI
- LYONDELL BASELL
- CHEMGAS
- BONATTI
- SOCIETÀ CHIMICA BUSSI
- SOLVAY
- ARKEMA
- SIEMENS
- SCHNEIDER
- ENI
- H.A.R. RESEARCH
- AUSTEP
- BERNARDINELLO ENGINEERING





References

Customer	Project/Plant	Year
SAIPEM	"GTP Onshore Plant" Project, ENI Angola Electrical and Instrumentation engineering	2023
CHEMGAS	Electrical and Instrumentation engineering, Classification of areas "New Laboratory project" – Brindisi plant	2023
FBM	"F&G system, loading area ATB" Electrical and Instrumentation engineering – ENI deposito di Ortona	2023
BASELL POLIOLEFINE ITALIA	"BRO_23502 Safety Improvement P9T B. L. EIV project" – Mechanical, Electrical and Instrumentation engineering - Brindisi Plant	2023
TECHNIP ENERGIES	"BOROUGE B4 PROJECT – EPC PACKAGE 2 (ETHAN CRACKER)" Instrumentation engineering	2022-23
SAIPEM	"ARAMCO Project JAFURAH - GCF Phase2" Electrical and Instrumentation engineering for bidding phase	2023
TECHNIP ENERGIES	"NESTE ROTTERDAM CAPACITY GROWTH PROJECT" Electrical and Instrumentation engineering	2022-23
SAIPEM	"ADNOC - Update of Feed of US GAS CAP phase 1 project" Electrical, Instrumentation and Telecomm engineering	2022
EUROAPI	Basic design project "POSITANO" Multidisciplinary design – Brindisi Plant	2021-22
TECHNIP ENERGIES	"ASSIUT HYDROCRACKING COMPLEX - ANOPC" Instrumentation engineering	2021-22
SANOFI	"UPS PDB Replacement project" Electrical engineering - Brindisi plant	2021



2021	"3.3kV Network Revamping project" Electrical engineering - Brindisi plant	SANOFI
2021	"P9T EXTRUSION - PLC RENEWAL project" Electrical and Instrumentation engineering - Brindisi plant	BASELL POLIOLEFINE ITALIA
2021	"MV Delivery Station Revamping project" Electrical engineering - Brindisi plant	SANOFI
2021	"MCC 9A-9B & MCC 11 IC1 Replacement project" Electrical engineering - Brindisi plant	SANOFI
2019-21	"MIDOR Refinery Expansion – Alexandria, Egypt" Instrumentation engineering	TECHNIP ENERGIES
2019-20	"LONG SON Petrochemical Complex in South of Vietnam" Instrumentation engineering	TECHNIP FMC
2019-20	"NESTE Singapore Expansion Project" Instrumentation engineering	TECHNIP FMC
2019-20	"P.C. Recovery Replacement project" Electrical engineering - Brindisi plant	SANOFI
2019-21	Project "Transmission gas pipeline (Interconnector) Border of Bulgaria – border of Hungary'' Electrical engineering	SAIPEM
2019-21	"ADNOC PKG4 HAIL & GHASHA DEVELOPMENT PROJECT" Instrumentation and Telecomm engineering - bid phase	SAIPEM
2019-20	Project "023086 SCS AUSTRIA" Automation engineering for DCS graphic and alarms displays	SAIPEM
2019-21	Classification of areas IC1 / IC2 / IC3 – Brindisi Plant	SANOFI
2019	"Fermentation & Agitator Power Centers Replacement project" Electrical engineering - Brindisi plant	SANOFI



2018-19	Project "Continuous Sterilizer Reliability Increase" Multidisciplinary design and procurement assistance – Brindisi plant	SANOFI s.p.a.
2018-19	Project "ReInASPIRAtion - CIP KMPT" Multidisciplinary design and procurement assistance – Brindisi plant	SANOFI s.p.a.
2013-19	Multidisciplinary design, procurement assistance and construction supervision for revamping - PP2, P9T, PPS plant - Brindisi	BASELL POLIOLEFINE ITALIA
2018-19	Project "PP2 Fail Safe PLC" Piping, Automation & Instrumentation engineering, procurement assistance – Brindisi plant	BASELL POLIOLEFINE ITALIA
2019	Project "Nuovo Sistema Estrazione Aria - Sala Compressori" Multidisciplinary design and procurement assistance – Brindisi plant	CHEMGAS
2019	Project "Nuova Sala CED 2" Electrical and fire detection engineering – Brindisi plant	CHEMGAS
2018	Project "UPGRADING VENT SYSTEM" Multidisciplinary design and procurement assistance – Brindisi plant	SANOFI s.p.a.
2018	Project "NUOVA SEZIONE IMPIANTO EURECO MG3" Multidisciplinary design and procurement assistance	SOCIETÀ CHIMICA BUSSI s.p.a.
2017	Project "PHOSPHATE BUFFER PREPARATION SYSTEM AT IC2" Piping and Instrumentation engineering, plant qualification and validation – Brindisi plant	SANOFI s.p.a.
2017	Project "ID4002 AUTOMATION" Piping, Electrical and Instrumentation engineering – Brindisi plant	SANOFI s.p.a.
2017	Project "REPLACEMENT UR4001A & UR4001B" Multidisciplinary design and procurement assistance, plant qualification and validation – Brindisi plant	SANOFI s.p.a.



2016	Basic design Project "FERMENTATION OF LIPASE" Multidisciplinary design – Brindisi plant	SANOFI s.p.a.
2015-16	Project ""REALISATION D'UNE STATION DE COMPRESSION A HASSI R'MEL DU GAZODUC GR4 48" SONATRACH" Electrical & Instrumentation engineering	BONATTI
2016	Project "P9T – SIMPLIFIED HEXENE RECOVERY" Piping and Instrumentation engineering, procurement assistance and construction supervision – Brindisi plant	BASELL POLIOLEFINE ITALIA
2016	Project "DALBA CAPACITY INCREASE" Multidisciplinary design, procurement assistance and construction supervision – Brindisi plant	SANOFI s.p.a.
2015-16	Project "TEICO CAPACITY INCREASE" Multidisciplinary design – Brindisi plant	SANOFI s.p.a.
2015-16	Electrical & Instrumentation engineering project "IMPIANTO OSMOSI INVERSA" Sanofi Plant Brindisi	BERNARDINELLO ENGINEERING
2015	Project "P9T & PP2 – FACILITY SITING PROJECT" Automation & Instrumentation engineering – Brindisi plant	BASELL POLIOLEFINE ITALIA
2015	FEED design for photovoltaic plant 13MW - SYNDIAL Assemini	ENI SAIPEM
2014-15	"DALBAVANCINE BASIC DESIGN" Multidisciplinary design – Brindisi plant	SANOFI s.p.a.
2014-15	"PROGETTO UTILITIES A IMPIANTO TAF" Multidisciplinary design – Bussi plant	SOLVAY



2014-15	Supply and HW/SW configuration PLC Fire&Gas system P1CR plant. ENI Versalis Brindisi	TEMA SISTEMI s.p.a.
2014-15	Electrical & Instrumentation engineering project "SOUTH STREAM OFFSHORE PIPELINE PROJECT – LANDFALL FACILITY CONSTRUCTION RUSSIA BULGARIA"	ENI SAIPEM
2014-15	Supply and HW/SW configuration PLC Fire&Gas system, PP2 Plant Brindisi	BASELL POLIOLEFINE ITALIA
2014	Supply and HW/SW configuration PLC pneumatic transport system, PP2 Plant Brindisi	BASELL POLIOLEFINE ITALIA
2014	"PROGETTO INDIPENDENT" Multidisciplinary design – Bussi plant	SOLVAY s.p.a.
2014	Electrical & Instrumentation engineering project "OLEODOTTO VAL D'AGRI – TEMPA ROSSA – TARANTO UPGRADING"	ENI SAIPEM
2014	Supply and HW/SW configuration PLC compressors C301 PP2 plant e P301 P9T plant - Brindisi	BASELL POLIOLEFINE ITALIA
2013-14	Electrical & Instrumentation engineering project "RAJOUT D'UN 3ème TURBOCOMPRESSEUR À LA STATION DE COMPRESSION TFT DU STC GR1/GR2 – SONATRACH Algerie"	BONATTI
2013	"INSTALLAZIONE FERMENTATORE F17" Multidisciplinary design – Brindisi plant	SANOFI s.p.a.
2013	"THIRD DRYER INSTALLATION ES3153C" Multidisciplinary design – Brindisi plant	SANOFI s.p.a.



2013	Supply and HW/SW configuration PLC for the electrical MT network supervision, Sanofi Plant Brindisi	SCHNEIDER ELECTRIC
2011-14	Electrical & Instrumentation engineering and 3D modelling project "1 PHASE OF H- OIL&VGO HYDROCRACKING COMPLEX BURGASNEFTEPROEKT EOOD"	TECHNIP ITALY
2010-11	Electrical & Instrumentation engineering, 3D modelling and classification of areas project "SPIRA PRODUCTION PLANT" Brindisi Plant	SANOFI s.p.a.
2006-08	Process, mechanical, civil, electrical and instrumentation design, procurement assistance, Construction supervision and installation assistance, commissioning "MINIBUS UEM PROJECT" Bussi	SOLVAY s.p.a.
2008	Electrical & Instrumentation engineering project "CCO3" Ilva Plant Taranto	SIEMENS



QUOSIT is certified according to UNI EN ISO 9001:2015.

All activities carried out by the Company are guaranteed by a quality system certified by CSQA.

The certification is valid for the following fields of activities:

Design, technical consultancy and management of the construction of

industrial plants.

The main objectives of the Company Policy are:

- Improvement of image and reputation among the community, in terms of ability to know how to provide services that meet the Customer needs
- □ Stakeholders satisfaction
- Respect of explicit and implicit contractual commitments
- Enhancing quality of service levels, obtained through staff training and professional updating
- Compliance with work and design safety regulations



CERTIFICATO

Certificato / Certificate nº 38950

Si certifica che il sistema di gestione per la qualità di We hereby certify that the quality management system operated by

QUOSIT S.r.l.

Sede legale / Registered office Via della Resistenza, 188 - 70125 BARI (BA) Unità operative / Operative units Via della Resistenza, 188 - 70125 BARI (BA)

È conforme alla norma / Is in compliance with the standard

UNI EN ISO 9001:2015 ISO 9001:2015

Per le seguenti attività / For the following activities

Progettazione, consulenza tecnica e gestione della costruzione di impianti industriali.

Design, technical consultancy and management of the construction of industrial plants.

IAF 34

L'uso e la validità del presente certificato sono soggetti al rispetto del regolamento CSQA di riferimento. The use and the validity of the certificate shall satisfy the requirements of the relevant CSQA rules.

Prima emissione First Issue 03/12/2008 Emissione corrente Current Issue 30/11/2023 Scadenza Expiring Date 02/12/2026

L'Amministratore Delegato The Chief Executive Officer Dr. Pietro Bonato

CSQA Certificazioni S.r.I. – via S. Gaetano 74 36016 Thiene (VI) www.csga.it





www.ignet-certification.com

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CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale. CISQ is the Italian Federation of management system Certification Bodies.

www.cisq.com



Buildina trust together.

Certificate

CISQ / CSQA has issued an IQNET recognized certificate that the organization:

QUOSIT S.R.L.

Via della Resistenza, 188 - 70125 BARI (BA), ITALY

in the following operative unit Via della Resistenza, 188 - 70125 BARI (BA), ITALY

> has implemented and maintains a **Quality Management System**

> > for the following scope:

Design, technical consultancy and management of the construction of industrial plants.

which fulfils the requirements of the following:

ISO 9001:2015

Issued on: First issued on: 2008/12/03 Expires on:

2023/11/30 2026/12/02

Registration Number: IT - 97525 - 38950

Alex Stoichitoiu President of IQNET

Mario Romersi President of CISQ



This attestation is directly linked to the IQNET Member's original certificate and shall not be used as a stand-alone document.

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