





ABOUT US

TEC Square Solutions Inc. (TSSI) is an engineering consultancy and project engineering company based in Cebu , Philippines that supplies engineering solutions to medium and large sized enterprises.

TSSI is part of the TEC Square Group of Companies.

TSSI's workforce is composed mainly of young, dynamic and experienced technical staff with high level of skills and competencies gathered through years of experience.

We specialize in projects with highly complex processes. Our core competencies are in the field of roasting, extraction, aroma recovery, evaporation, spray drying, freeze drying and agglomeration. We support your project from concept to realization and beyond.

Our main activities are centered around:

- Project Concept: Consulting on technologies and other design questions.
- Project Execution: Bringing a project from concept to realization.
- Production and Technical Support : Supporting operations after a project is finished.

We pride ourselves in our belief that we are partners throughout a project and see to it that you are well satisfied throughout the process.

TEC Square Solutions Inc. has gone through the challenges of many projects and guarantee the following are met:

- **Quality**: The quality of our solutions is one of our top priorities. We guarantee that you have the best possible solution every time you work with us.
- **Delivery**: We ensure that projects are delivered on time, every time.
- Cost: Our cost-effective solutions will help you stay well within your budget while still suiting your requirements.

OUR CAPABILITIES



PROCESS ENGINEERING

We can help you conceptualize, analyze, and design a new process or improve an already existing one.

- Establish Project Concept
- Generate process descriptions and flowsheets
- Generate proposed system layouts
- Generate project cost estimates



DETAILED ENGINEERING

We can execute a wide range of detailed engineering activities:

- Establishment of piping and instrumentation diagram (P&ID)
- Calculate detailed plant heat and mass balance including energy requirements
- 3D layouts and isometric piping plus BOM
- Provide specifications for process equipment



Our Electrical Engineering Team is capable of:

- Electrical system design
- Electrical panel design
- Manufacture of electrical panels
- Generation of electrical drawings
- Supervision of electrical works



Our Team of Application Engineers for Automation are well rounded in the field of Instrumentation, Controls and Automation. Among their areas of expertise are:

- Control system design and integration
- Programming of PLC and PAC
- Development of HMI and SCADA
- Process control system simulation
- Installation and Commissioning
- Calibration and maintenance of field instruments and devices

TEC Square Solutions Inc. is a registered system integrator of **Wonderware**, **Ignition** and **Rockwell**.

CONSTRUCTION AND SUPERVISION

We involve ourselves in various administrative, technical and managerial aspects of constructing projects. This can include:

- Purchase of equipment
- Selection of contractors
- Site supervision
- Change order management



During start-up and commissioning, we ensure the proper installation and operation of systems prior to the handover to the end user. The following are performed:

- Piping check-out
- Mechanical completion check
- Electrical System check and power-up
- Device IO checkout
- Instrumentation calibrations
- PLC and HMI function test
- System dry and wet test
- Production run



PRODUCTION AND TRAINING

During or after a project, our experts can visit your facility to conduct classroom and/ or actual field training of the installed process.

Training assistance can also be provided to new and existing plants with new operators or as a stage in an optimization process.



MOBILE APP DEVELOPMENT

We develop customized mobile solutions adaptable to a multitude of applications:

- Mobile Process Control: designed to run or monitor your equipment on a mobile device.
- Mobile Data Capturing: The alternative way of allowing discrete data capture as example surveys and census in the most effective way.

SOFTWARES & APPLICATIONS

We are proficient in the use of the following

















AFFILATIONS



PEZA Certificate of Registration No. (1-158)

CONTACT DETAILS

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PAST PERFORMANCES

List of past and on-going projects



DEVEX Verfahrenstechnik GmbH. Germany: Complete basic and detailed engineering, automation, start-up commissioning of a new instant coffee factory in Vietnam.



Mellower Coffee, China: supplied detailed engineering for green coffee & roasted coffee handling and storage for two roasters.



Complete replacement of Geo Coffee's automation program of its facility in Beijing, China.



Supplied the engineering and automation of a new Aroma Recovery System for two of Indus' facility in India.



PROSOL Coffee, Spain: detail engineering of additional parts of existing installation.

TEC SLITIUARE

GROUP OF COMPANIES

TEC Square Project Management SL Málaga, Spain

> **TEC Square S.L.** Málaga, Spain

TEC Square B.V. Dongen, the Netherlands

TEC Square Electrical BV Oud Gastel, the Netherlands

TEC Square Solutions Inc. Cebu, Philippines

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