GENERAL SYSTEMS DESIGN INC.

(FF)



Company Profile

GSD carries out its activities at Techno Plaza in Maltepe / Istanbul that has approximately 4000 m2 covered area.



www.gsdas.com

D100 Maltepe Kavsagi Nazmi İlker Sk. No : 10 34852 Maltepe / Istanbul / TURKEY

Tel: +90 216 458 4848 (pbx) Fax: +90 216 399 5374





Company Profile

- General Systems Design Inc. (GSD) has been founded by two Mechanical Engineers in 1987.
- As of now, GSD has a good reputation in the market and has won important projects locally and abroad.
- GSD consists of approximately 80-85 team members active in Headquarters and in fabrication facilities.





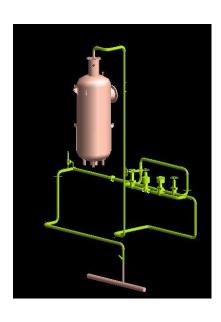


Company Profile

International Engineering & Contracting Capability

GSD has a strong team in different disciplines for completion of the works for the satisfaction of its clients, starting from Engineering to Turn-Key completion of the Industrial Plants, and where required, gets the responsibility of the systems for operation and maintenance in proper manner. Some of our engineering programs are Aveva PDMS, Autocad, AutoPIPE, PV Elite and Solid Works...





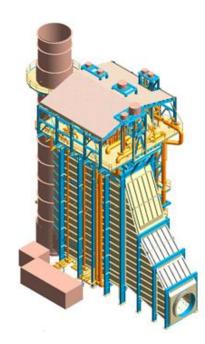


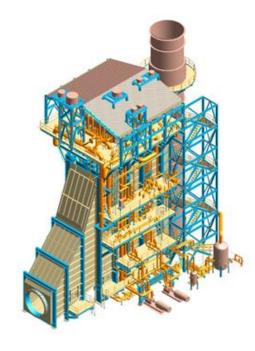


Industrial Plants

Following services are provided by GSD Industrial Plants:

- Engineering (Civil, Mechanical, Process, Electrical, Automation)
- Material Supply (Tanks, Piping, Instrumentation and Control Systems, Valves, Steel Structures etc.)
- Civil Works
- Erection
- Commissioning and Start up
- Operation and Maintenance





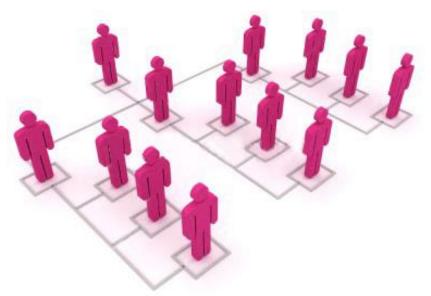


ManPower

STAFF

Engineers	10
Technicians and QA-QC	15
Finance/Customer Service/Miscellaneous	15
Project /ConstructionTeams	40-150

TOTAL PERSONNEL: 80-190



All engineers are capable of communicating in English. German and Japanese speakers are also available.





HSE POLICY

GSD is dedicated to prevent associates, employees, equipment , engineering data, offices , human beings – animals around GSD facilities from any kind of hazard, accident, pollution that may result from our business conduct , resulting in to zero accident, zero environmental impact and zero health impact .

GSD preserves the environment and World resources by efficient use of natural resources.

Above mentioned statements are always our top priority . Consequently HSE issues will always override cost issues .

In order to achieve and sustain the above mentioned policy GSD is spreading this as a company culture via a well documented, continuously bettered HSE management system, making sure that the system can be implemented at the same level even employees may change.

Utilising ISO 14001 and OHSAS 18001 standards that GSD obtained We will implement management systems to control and regulate all the risks and functions that is related to our HSE policy.

All GSD personnel will be fully participating in this management system for achieving the targets with well defined responsibilities and scope of authority, procedures within all the laws and regulations applicable.

Each employee is requested to declare and undersign a "100 % HSE policy promise " once every January . To that end each employee is responsible for taking care of his own health and safety while working and managing others without causing any risk to their health and safety besides eliminating risks to the factory equipment, produced items. Each GSD employee will be monitoring others for compliance to the relevant policies and warn them should a non-compliance is observed. Each employee is encouraged to determine the factors that are creating risk, demand training on HSE protection and getting involved in all HSE related systems .

GSD will make sure that the above mentioned HSE system is applicable to all of its business activities and that the policy is comprehensible at every level of the company organization. By using the past data and experiences of the past due to a non compliance GSD will continuously improve the HSE policy.



GENERAL SYSTEMS DESIGN INC.



7

Quality Certification









GENERAL SYSTEMS DESIGN INC.

(FF)

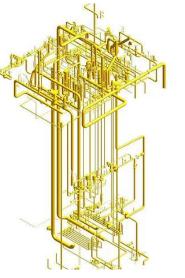
Field of Activity

- Automation
 (Solution Partner of EMERSON)
- Industrial Contracting (EPC)
- Production and Supply of Equipment
- Steel and Pressure Parts and Vessels Fabrication (3S)











Customer Portfolio

- Oil and Gas
- Energy
- Petrochemistry
- Refinery
- Textile
- Iron and Steel
- Food and Beverage
- Chemical Process
- Water and Wastewater











GENERAL SYSTEMS

DESIGN INC.

Some of Our References



































































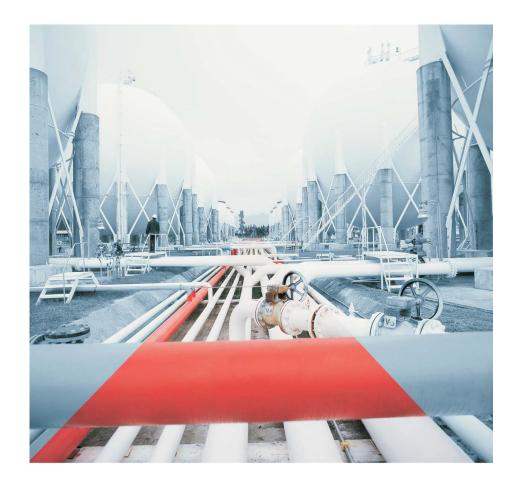








 Dörtyol Embedded LPG Tank Farm Project Main Automation Vendor







IPRAGAZ

 Dörtyol Tank Farm Project Main Automation Vendor









 Tekirdag Tank Farm Project Main Automation Vendor





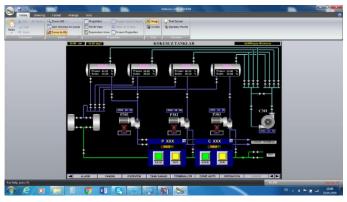


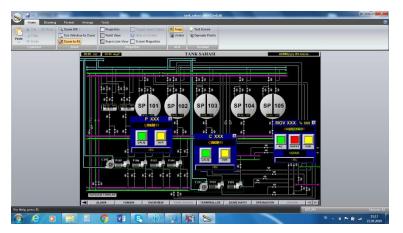


 Tekirdag Tank Farm Project Main Automation Vendor















 Tekirdag Tank Farm Project Main Automation Vendor















 Izmir LNG Tank Farm Project Main Automation Vendor





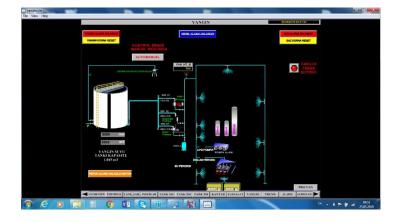


BP Yarımca





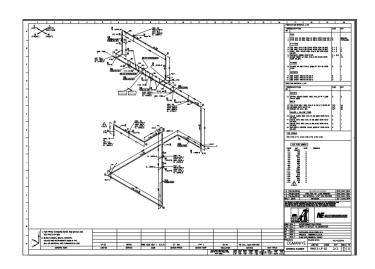




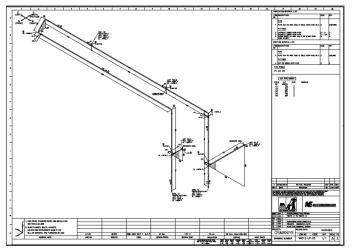


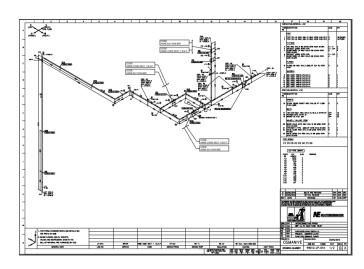
GENERAL SYSTEMS DESIGN INC.





Piping Engineering





EPC Procurement Capabilities

LPG Spherical Tanks

(Cimtas, Titas...)











Manufacturing



3S is a subsidiary of GSD





GENERAL
SYSTEMS
DESIGN INC.

www.3scelik.com

Tasli Tarla Mevkii Balikli Cesme Koyu Biga Organize Sanayi Bolgesi 11 no'lu yol 17200 Biga / Canakkale / TURKEY Tel: +90 286 324 3780 21



SCIENTIFIC STEEL STRUCTURES is an industrial

plants' construction, contracting, and engineering house with experienced field erection team under one roof with a focus of Worldwide coverage.

SCIENTIFIC STEEL STRUCTURES factory is located in Biga Çanakkale Turkey with a closed area of $8000m^2/open$ area $14000m^2$ and 1MW power. Placed in the prestigious Biga Industrial Zone, 3S plant is only 19 km from Biga commercial port and less than 1 km from Bursa – Çanakkale main road D200.







ENGINEERING / FABRICATION / INSTALLATION

Typical manufacturing metarials are; Carbon Steel, Alloy Steel 11, 22, 91, Stainless Steel...

Products

- Structural steel components
- Steel stacks
- HRSG casing and inlet ducts
- Pressure parts and steel parts for Coal Fired Power Plants
- Pressure vessels, drums certified as per ASME and CE
- Power and process piping spools, supports
- Steel building structures
- HRSG modules and similar heat exchangers
- Crane structural parts
- Secondary steel structures (Platforms, Stair towers, Bridges, buildings etc.)
- Large size valve maintenance
- Other advanced structural components





Field Erection Services

- Erection of Combined Cycle Power Plants
- Erection of Thermal Power Plants
- Erection of Refineries, Oil and Gas and other Industrial Plants

All of the fabrication is based in the Biga factory and thanks to direct port and land transportation access 3S is positioned to be the global fabricator that is preferred by EPC and OEM companies from all over the World.







SCIENTIFIC STEEL STRUCTURES

Besiktas Vodafone Football Stadium



Osmaniye Kayali CCPP Project



Hebetec 3rd Intercontinental Bridge



BIS Energy CCPP





GENERAL SYSTEMS DESIGN INC.



Osmaniye Kayali CCPP Project



Osmaniye Kayali CCPP Project





Osmaniye Kayali CCPP Project



BIS Energy CCPP



SCIENTIFIC STEEL STRUCTURES

Calik Energy Navoi-II Project



Osmaniye Kayali CCPP Project



Osmaniye Kayali CCPP Project







This certificate was given to the below stated company by UDEM International Certification Audit Training Cent. Inc. Co.

3S Endüstri Tesisleri İmalat Mühendislik

Sanayi ve Ticaret Limited Şirketi

Head Office: Zümrütevler Mah. Nazmi liker Sok. No:8/3-301 Maltepe

ISTANBUL / TURKEY

Factory: Taşlı Tarla Mevkii Balıklı Çeşme Köyü Biga OSB 11 Noʻlu Yol No:67 Biga 17200

ISO 9001:2015

Scope: Manufacturing of steel construction and pressure pot (tank, drum)

EA Code: 17

: 07.07.2014

: 13.07.2018

Certification Audit Date Decision Date

GENERAL SYSTEMS DESIGN INC.







3S Quality Certification

3S Quality Certification











PERFECTION IN INDUSTRIAL CONTRACTING & AUTOMATION

GENERAL SYSTEMS DESIGN INC.



QA / QC Documentation

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Title	QUALITY CON					Date:	10-Oct-18		Page 1 of 2		
Component		Vacuu	m Deaerator	JOB NUMBER: 31586					U	INIT: 1	
		Applicabl	le documents	Acceptance	Interventions and		Involved parts codes		odes		
Phase	Activity	Supplier	Client		Inspector	GSD Inspector	C	0	Al	Report	Notes
	Rolled Cylinders (when sub-contracted by vendor)										
1	Visual and Dimensional Inspection.			BN 13645, Dravings	IP						
2	Verify Customer Identification			Drawings	R	R					
3	Verify Applied Material Quality			Drawings	IP	IP					
4	Verify Plate Rolling Machine Operators certificate				IP						
5	Verify use of accepted weld procedures and use of approved Welder machine Operators.			8973445	R	R					
6	Verify Applied Welding Wire			8913445	IP						
7	View Radiographs for longitudinal seams.			DO 10x75,DO 17x3x	IP						
8	Review Code Data Reports and EN Code Stamping			Drowings	R	R					
9	Verify GSD Job Number Identification.			Drawings	IP						
	Drum Manufacturer										
10	Verify Welder and Operator certificate				IP						
11	Verify Applied Welding Wire			913445	IP						
12	Inspect dimensional dishes head			Drawing, BY13465	IP						
13	Inspect dimensional bending shell plates			Drawing, BY13465	IP						
14	Inspect dimensional lay out of plates and pipes.			BHI3465, Drovings	W						
15	inspect the layout of nazzles prior to cutting nazzle openings on the shell.			Drovings	IP						
16	Verify use of accepted weld procedures and use of approved Welder machine Operators.			BOISMR	IP						
17	Verification of the drum shell and head interior surfaces steel grit blasting before tablication.			Billans, drawing	IP						
18	Inspect the fil-up of longitudinal and circumferential seams.			B1134IS, Diswings	w						
19	Visual inspection of longitudinal and droumferential seams.			SOLFISE, Drawings	IP						
20	Visual inspection of longitudinal production plates			BH134KS, DKIANTON	IP.						

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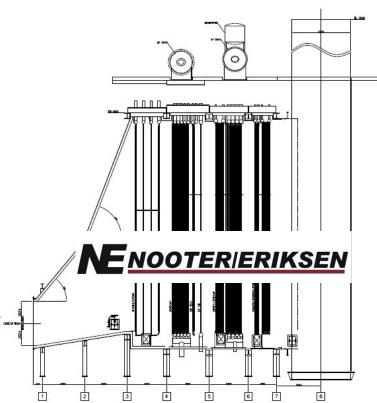
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Completed EPC Project

KAYALI Energy, 75 MWe CCPP

GSD has undertaken one HRSG and boiler island engineering, fabrication, field construction and commissioning works.









Completed Project

Gardabani 230 MWe CC Power Plant

Çalık Enerji is the EPC of this CCPP. Gardabani is the 1st natural gas based power plant of Georgia. It is critical for frequency control of the national grid.

GSD has undertaken two HRSGs engineering, fabrication, field construction and commissioning works. GSD has completed the project successfully.











Completed EPC Project



PROJECT HP SH Co-Generation Plant - 130 MWe

LOCATION Mersin, Turkey

GAS TURBINE GE Frame 9E

HRSG Nooter Eriksen (385 t/h/41 bar/440 C)

EPC Turnkey Completed in 22 months

GENERAL SYSTEMS DESIGN INC.





2006

2009

PERFECTION IN INDUSTRIAL CONTRACTING & AUTOMATION

Completed EPC Project

2013



PROJECT	Combined Cycle Power Plant - 120 MWe
LOCATION	Bursa, Turkey
GAS TURBINE	LM 6000 PC Sprint
HRSG	GSD (HP SH/LP SH)
EPC Turnkey	Completed in 21 months





Completed EPC Project



2014

PROJECT : Combined Cycle Power Plant 120MWe

LOCATION : Hereke, Turkey

GAS TURBINE : LM 6000 PC (Sprint)

HRSG : GSD (HPSH / LP SH)

EPC Turnkey: Completed in 22 months





After Sales Service Operation of the Industrial Plants

An in-house control system and testing equipment are used to provide support to customers with a maintenance contract. GSD also holds copies of software for all of the control systems installed.

This allows GSD to simulate any problem that GSD's customers might have and also carry out modifications and upgrades to their systems off-site.

The Service Operation also provides man-power to make unscheduled site visits, technical support, emergency parts handling and repairs administration for mechanical and all industrial plants including instrumentation and valves.









Factory Machinery Capacity

Travel Lift ► Working Capacity 12 tons

Radial Drilling Machine - Working Distance 15000mm x 1500mm

Profile Bending ► Working Distance NPI 200

Pressing Machine ► Working Capacity 400 tons

Blasting – Painting Outdoor Unit

Blasting Unit Indoor Unit

Hyraulic Cylinder ► Working Area 3100mm x 45mm

Head Drilling ► Working Area 4000mm

Guillotine Cutting Machine ► Working Distance 3000mm x 16mm

CNC Plasma Machine ► Working Distance 3600mm x 20000mm

Paint Side

Painting Unit

Aymaksan Saw Working Distance 2200mm x x600mm

Angle Band Saw ► Working Distance 500mm

Press Brake Machine ► Working Distance 3000mm x x12mm



