



# **TEKAMEC**

**Engineering Solution**

Engineering Consultancy & Contracting Inc.

# Company Overview

- INTRODUCTION
- ABOUT US
- COMPANY ACTIVITIES
- Project Management
- Engineering Services
- Electrical & Mechanical
- Construction and Commissioning Works
- Fiber Infrastructure
- Telecom/SCADA
- Security Systems
- Repair & Maintenance
- REFERENCES



# About Tekamec Inc.

- Brief Introduction of Partners;

Each have individually have many years of technical administrative experiences in engineering and construction businesses. They succesfully completed world class offshore & pipeline projects and global telecom/network, infrastructure projects as well as big size commercial and industrial complex projects.

- Details of working models of co-signees;

Tekamec is a multi-disciplinary company and serving its customer with a full range of design, engineering, procurement, construction and commissioning as well as infrastructure, Oil&Gas and industrial plants projects. Tekamec establishes work forces with several international upstream companies in various fields such as Schlumberger, MI-Swaco, MI Gulf, Transocean, ABB, Baker Hughes, NOVas well as some local operator companies such as TPAO, TPIC and Perenco; each of them has their own unique proven expertise in related fields.





Tekamec is established to serve design and engineering, integration and site support services in the field of mechanical, electrical, instrumentation and telecommunication projects.

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Our expertise focuses on design and integration of custommade plug and play solutions that can be executed and installed in any location - all pre-engineered, pre-tested and ready for installation/commissionin.

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Tekamec brings its electrical and mechanical expertise to EPC contractors that have a mechanical and civil focus. We are reliable, flexible, capable and you can count on our expertise and commitment to get the job done, save your time and resources.

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# Company Policy

- Safety at all times
- Quality at every step
- On time on every commitment
- Added value at each job
- Time and cost efficiency
- Integrity and transparency
- Flexibility, creativity and innovation





## EXPERTISE AREAS

Tendering & Bid Support

Project / Site Management

Design, Engineering and Documentation

Turnkey Electrical & Mechanical Installation

Upstream & Downstream Electromechanical Services

Instrumentation & Control Services

Equipment Testing and Commissioning

Plant Maintenance Service

Telecom, Network and Security Systems

F/O Infrastructure

Fire Fighting



# PROJECT / SITE MANAGEMENT

Project planning and feasibility check

Cost and financial studies.

Project Design

Contract and subcontract execution

Resource assesment and allocation

Technical support on procurement

3rd party inspection and QA/QC service

Performance evaluation

KPI definition-implementation-monitoring

Value engineering for cost minimization and resource optimization



# OIL & GAS SEGMENT

Project planning and feasibility check

Cost and financial studies.

Project Design

Contract and subcontract execution

Resource assesment and allocation

Technical support on procurement

3rd party inspection and QA/QC service

Performance evaluation

KPI definition-implementation-monitoring

Value engineering for cost minimization and resource optimization



## COMPTON PROJECT COMPLETION SERVICES

## CONSTRUCTION WORKS

Gas, DF and Diesel engine refurbishment, installation and commissioning for onshore power plant and marine power

EPC Works of Mechanical Equipments (pumps, valves, turbines & brown field equipments etc.)

EPC Works of Electrical Equipments (HV-MV-LV)

Instrumentation and Control System Works

Telecom/SCADA & Automation works

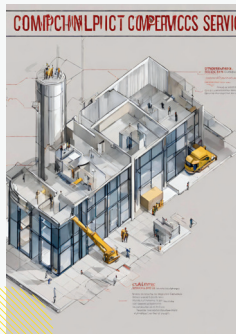
Resource assesment and allocation

Project completion services

Precomissioning & Commissioning Services

Daily & Weekly Reporting

Non-Conformity Items Clearance and Defect Elimination



# ELECTRICAL AND I&C WORKS

MV-LV switchgears

Plant cabling

Plant instrumentation Installation, Repair & Commissioning  
(sensors, flow gauges, pressure gauges, actuators, etc.)

SCADA/FO

CCTV, PAGA, ACS and monitoring systems

I/O checks

Fire Fighting System Design and Execution

Non-Conformity Items Clearance and Defect Elimination



# TELECOM/SCADA WORKS

PON (Passive Optical Network), FFTx (Fast Fourier Transform), MSF (Multi Fiber Switch) and backbone fibre optic cable.

CCTV and intruder detection system (FIDS/BIDS)

Access Control System (ACS)

IP telephone Lan/Wan

Public Address General Alarm System (PAGA)

Antennas (DTRS, ARS, AWOS, NDB)

GPS and Master clock system



# COMMISSIONING WORKS

Detail design and review

Hot&Cold Loop checks

Energization

Start-up

Cause and effect tests

Calibrations

Inspection Sheet and Commissioning Report

Non-Conformity Items Clearance and Defect Elimination





# FIREFIGHTING SYSTEM



Addressable and conventional extinguishing systems  
Detection and extinguishing systems that can be controlled from the main center  
maintenance and repair of existing systems  
Project design and revision of extinguishing systems

Creating a presentation on firefighting systems involves covering various key components and aspects. Here's an outline with main titles that you can use for your presentation:

- 1 Introduction to Firefighting  
Importance of fire safety  
Basic principles of firefighting
- 2 Fire Detection Systems  
Smoke detectors  
Heat detectors  
Manual call points
- 3 Fire Alarm Systems  
Types of fire alarms  
Alarm monitoring and response
- 4 Fire Suppression Systems  
Water-based systems (sprinklers, mist systems)  
Gas-based systems (clean agents, CO2 systems)  
Foam systems  
Dry chemical systems
- 5 Active and Passive Fire Protection



TEKAMEC

ENGINEERING SOLUTIONS

SUCCESSES / COMPLETED PROJECTS

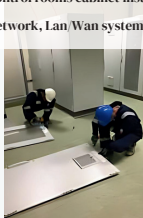
# TRANS ANATOLIAN NATURAL GAS PIPELINE PROJECT / Turkey

**All internal and external Security  
Systems, CCTV, ACS, IDS and PAGA  
construction Works.**

**Instrument installations and terminations.**

**Control rooms cabinet installations and cabling.**

**Network, Lan/Wan system room construction Works.**





- TANAP Project F/O infrastructure LOT 2&3, total 1000km.
- In Project scope, F/O cable blowing, splicing and OTDR testing performed.



- Manned stations security, network, Lan/Wan, SCADA systems construction, installation Works completed on 3 Metering, 4 Compressor stations.



- All unmanned stations, fiber, power and signal cable terminations, CCTV, PAWS, FIDS/BIDS and Lan/wan systems applications, testing and inspection.

**TANAP**

**TRANS ANATOLIAN  
NATURAL GAS PIPELINE  
PROJECT /Turkey**

# TRANS ANATOLIAN NATURAL GAS PIPELINE PROJECT / Turkey



**System control and monitoring systems.**



**All security and SCADA system monitoring room, construction and commissioning services.**

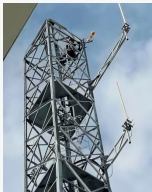




## **TRANS ANATOLIAN NATURAL GAS PIPELINE PROJECT / Turkey**

**Antennas Project applications.**

**DTRS (Digital Trunking Radio System), AWOS (Automated Weather Observation System), ARS (Aeronautical Radio System), NDB (Non-Directional Beacon) construction and pre-commissioning Works.**



# TRANS ANATOLIAN NATURAL GAS PIPELINE PROJECT / Turkey



**Related systems cold&hot loop checks, pre-commissioning and commissioning works, currently performing.**

**Related A & B Checksheets Control and Punch Clearance.**



# TRANS ANATOLIAN NATURAL GAS PIPELINE PROJECT / Turkey

TELECOM/SCADA, ACS, PAGA, CCTV







## CONSTELLATION 2 TOTAL JACK-UP OFFSHORE ES WORKS / Gabon

Decision of the solid control equipments to be installed with respect to API Spec2 and API 610.

Desing of their orientation accordingly and place them on the related location in the drawing.

Preparation of the flow diagram of the mud on the ES stuff.

Mobilization of the equipments on the platform.

Installation of decanding centrifuges, vert-G, vacuum cleaners, shale shakers, desanders and desilters for the water treatment & waste management.

Design of the augers between the interface equipments if necessary,

Commission them and adjust the feed rates.

Operation services during casing stages.

Decommission them after operation completed.

Demobilization of all stuff.



## **JASPER EXPLORER CNOOC DEEP WATER PROJECT / Congo**

**Planning of the combination and the number of the waste treatment equipments due to the zero discharge policy with respect to API Zone1 & 2 Atex certified criteria.**

**Preparation of the P&ID and isometrics of the stuff and flow diagram of the oil based mud accordingly.**

**Execution of mechanical and electrical Works on the drill ship after approval by the client.**

**Supervision of the commissioning and operating the solid control equipments during drilling operations.**

**Demob. The stuff after operation if necessary.**



## **UNITED HYDROCARBON LAND RIG OPERATION / Chad**

**Decision of the number and type of the environmental solution equipments to be mobilized due to drilling program and he type of the mud to be used.**

**Planning the number and the type of the spare parts to be stocked during the operation due to toughness of the logistics way all along Africa.**

**Electrical and mechanical services during operation.**

**Waste management and providing clean water flocculated from drilling fluid by ES proccoss to the nearest villages.**

**Demob of the ES stuff wrt the interface program with the client and other service companies.**



## **EXXON MOBIL BLACK SEA DEEP WATER PROJECT / Turkey**

**Shorebase supervision of the offshore equipments.**

**Planning which type of the stuff to be prepared according to the P&IDs and flow diagrams with respect to the pumping program.**

**Preparation of the parts for the Hammer Mill to be installed and commissioned.**

**Decision of the volume and the number of the isotanks/skips to transport andy waste/cuttings from the well due to API standards.**

**Design the deck of the support vessels to carry these isotanks safely.**

**Supervision of the mechanical/electrical works to be held on this purpose.**



## **PERENCO SOUTH EAST DRILLING PROJECT / Turkey**

**Installation of the shakers and mud cleaners with the coherence of the floc unit.**

**Adjustment of the balance of the shakers and the screens due to the result of mud test.**

**Supervision of the maintenance of the rotating equipments to be operated.**

**Coordination of the reenjection process of the treated water to the old wells to increase the productivity.**

**Rigging down the platform to prepare for the next oil well.**



## **PETROM PLOESTI OIL&GAS OPERATIONS / Romania**

**Execution of the mechanical and electrical works of centrifuges,**

**Automaton of the Floc unit to be operated to separate the clean water from the mud.**

**Supervision of the cuttings handle coming from oil well wrt API and local standards.**

**Maintenance of the decanding and vertical centrifuges during operation. Ø Rigging up and down the ES equipments.**

**QA/QC management of the overall operation preparing the End of Well Report (EOWR).**



## **HAMITABAT 1200 MW CCPP BALANCE OF PLANT MECHANICAL WORKS / Turkey**

Checking the design of the mechanical equipments of Hamitabat combined cycle power plant(boiler feed pumps, condensate booster pump system, fire fighting pump system and main cooler pump systems) and the related piping and equipments (filters, strainers, fan fin coolers, valves etc.) according to the API, NFPA and ISO standards.

Preparation of the Comment& Daviation List accordingly to improve the design and control the updates from engineering vendors (black&veatch, worley parsons)

Arrangmenet of the kick off meetings to get the asbuilt diagrams.

Control the bids from the vendors wrt the final desing revision.

Support the procurement stage after the vendor awarded.

Planning the delivery and installation schedule.

Punch clearence and mechanical completion to prepare for commissioning.

