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## About Us

# OUR FOUNDERS

Dear friends,

Sayın inşaat was established in 1994 in order to bring a new dimension and understanding to the construction contractor understanding that became outdated in construction and to set the industry standards again. This innovative approach set his goal to create a modern machine park, establish a qualified staff and adopt a total quality understanding by keeping customer satisfaction at the forefront in the first days. Our company, which reached this goal in its early years, has constantly updated itself by fulfilling the requirements of the time.

In our early days, our clients, who required superior engineering and gave us the chance by delivering their comprehensive works, are among the main factors contributing to our company to come to these days, despite we had not got sufficient experience and limited capacity. We are on the path of our vision by continuing our day-to-day development by making good use of these opportunities, which they recognize with our devoted efforts. With our experience and knowledge of more than a quarter century, we have become a solution partner for the different requirements of our customers in heavy industry facilities.

The importance of human is in its being worth. It is part of our mission to build the structures we need to preserve and uphold this value in the best way possible. Many of my colleagues, who our mission overlaps, have become valuable stakeholders of our company as parts of this new understanding.

Big firms are built on big products. That's why we have to be very particular about doing the best we can. We must find our mistakes and correct them to perfection.

It is one of our priorities to produce with a lean production approach in construction, with less waste for the environment and respecting the nature. We will continue to produce and work in order to make our world a more livable place for humanity and leave a livable world to future generations by carrying our national recognition to the international level.

**M. Fahri Sayın**  
Civil Engineer  
Founder and President

**Nurettin Erel**  
Co-Founder

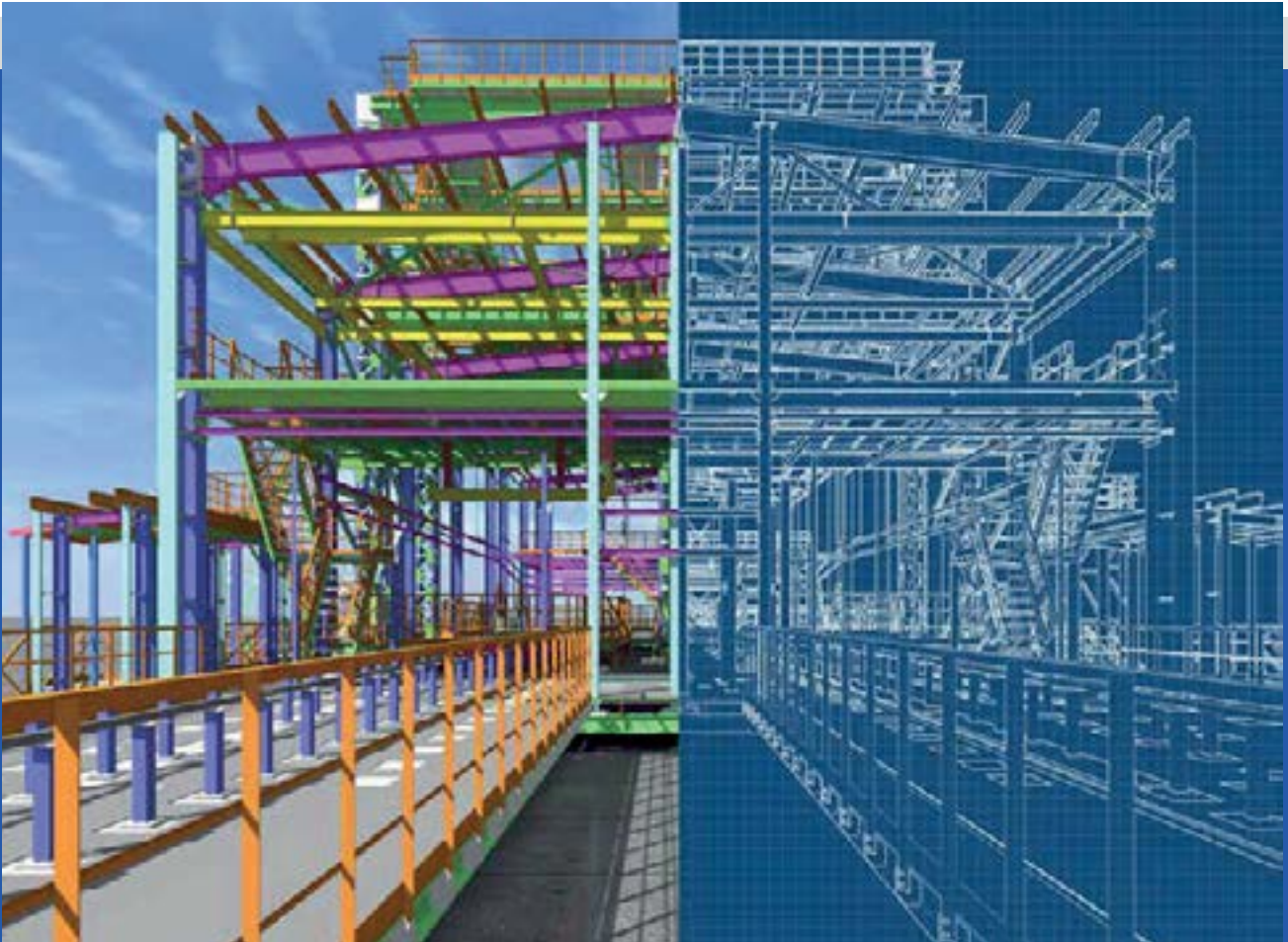
## About Us

# ENGINEERING

Our aim is to pro-actively impact and manage the evolution of every step of design thus we can offer deliverable solutions. Sayın Stroy Construction Company (SAYIN) Engineering Group presents civil, structural, architectural, electrical, mechanical, process and piping design.

### SERVICES

- Feasibility.
- Detail engineering according to customer requirements.
- Technical drawings for application.
- Commissioning management.





# CONSTRUCTION

We present full of ability in any type of construction, creating effective teams of construction experts. Versatile construction management teams and methods are suitable for planning, executing and monitoring grand and complex projects to secure timely, accurate quality and safe construction.

As being contractor of the construction sector we have ability to work on different type of contracts such as;

- Design/ Bid/ Build (Traditional)
- Design Build
- Project Manager Type
- Guaranteed Maximum Price
- Build-Own-Operate-Transfer
- Turnkey Contracts

During construction phase, SAVIN has several steps to ensure the project progress accurate. These are;

- Planning and scheduling
- Procurement
- Monitoring and control
- Subcontractors approval
- Shop drawings
- Procurement
- Equipment and workforce
- Cashflow curve
- Time control
- Progress reports and meetings
- Variation orders
- Inspections
- Testing
- As-built drawings
- Commissioning

Sayin Stroy Construction Company (SAYIN) has succeeded and well know for its capability to manage particular construction manpower from different regions and nationalities. SAYIN is also well know regarding to employ local workforces as highest as possible. By this way, every project contributes the local economy of the project location. Besides, SAYIN owns machinery equipment for every step and type of construction including cranes and piling equipment.



# EXPERIENCED SECTORS



**Power Plant  
Nuclear**



**Heavy Industry  
Process Plant**



**Petrochemicals and  
NATURAL Gas Plants**



**Automobile  
Factory Campus**



**Hydro Power  
Plants**



**Chemical  
Industry**



**Metallurgy  
Mining**



**Food Industry  
Plants**



**Infrastructure  
Transportation**



**Retail**



**Business  
Center**



**Educational  
Buildings**



**Residential**

# SAYIN STROY

## BY NUMBERS



Establishment  
**1994**



Experience in Heavy Industrial Buildings  
**Over 30 years**



Peak Number of Employees  
**1500+**



Completion m<sup>2</sup> so far  
**2.500.000+ m<sup>2</sup>**



# INDUSTRIAL PROJECTS

## Projects

# INDUSTRIAL PROJECT

AKKUYU NUCLEAR POWER PLANT

EL-DABAA NUCLEAR POWER PLANT

MERCEDES - BENZ HE82025 PROJECT NE FINISH HALL CONSTRUCTION

EKU FREN INDUSTRIAL CONSTRUCTION

LIPTON TEA PACKAGING PLANT

NESOS KANDIRA PRODUCTION FACILITY

POLIMER AR-GE PRODUCTION AND ADMINISTRATION BUILDING

BRITISH MOTOR COMPANY (BMC)

TOYOTA AUTOMOTIVE

HYUNDAI AUTOMOTIVE

ERDEMIR STEEL

TURKISH PETROLIUM REFINERIES (TÜPRAŞ)

OMV PETROLIUM OFFICE

ASSAN ALUMINIUM COMPANY

BRIDGESTONE SABANCI (BRISA)

OTOKAR AUTOMOTIVE & DEFENSE INDUSTRIES

FORD MOTOR GÖLCÜK

FORD TRUCK İNÖNÜ

HYUNDAI STEEL COMPANY

KNAUF GMBH

POSCO ASSAN TST

CPL CARTONPLAST GROUP GMBH

RÖNESANS BOTAŞ NATURAL GAS STORAGE FACILITY

TOYOTA TSUSHO CORPORATION

GOODYEAR TIRES

HENDEK GALVANIZED STEEL



## Projects

Nuclear Industry

# Akkuyu Nuclear Power Plant

### Projects Detail

Job Type	Nuclear Power Plant
Owner	ROSATOM / JV
Project	Nuclear Power Plant, LOT 9, LOT 11, LOT 2, LOT 59, LOT 90
Contract Type	SMETA / Turnkey
Collaboration Period	Under Construction
Location	Mersin, TÜRKİYE
Construction Area	158.000 sqm



AKKUYU NÜKLEER  
ROSATOM



\*\* It is not allowed to take & publish pictures of any part of the facilities due to Owner's contractual restriction.







## Projects

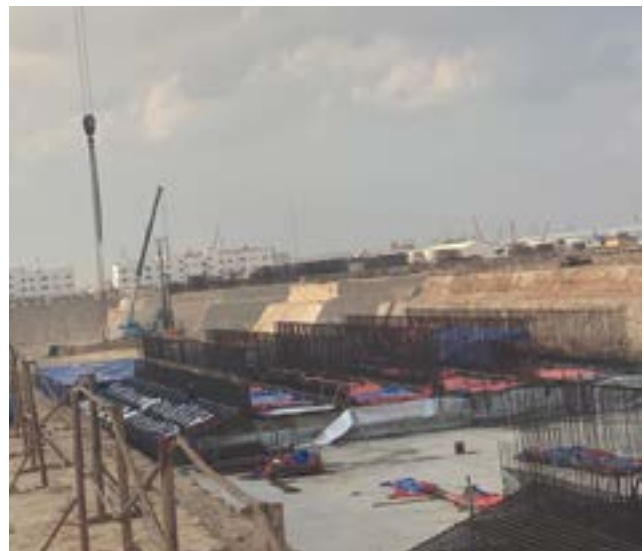
Nuclear Industry

# EL-Dabaa Nuclear Power Plant



### Projects Detail

Job Type	EL-Dabaa Nuclear Power Plant
Owner	NPPA / ROSATOM / ASE
Project	Nuclear Power Plant
Contract Type	SMETA
Collaboration Period	Under Construction
Location	EL-Dabaa / EGYPT
Construction Area	150.000 sqm







## Projects

Automotive Industry

# Mercedes-Benz

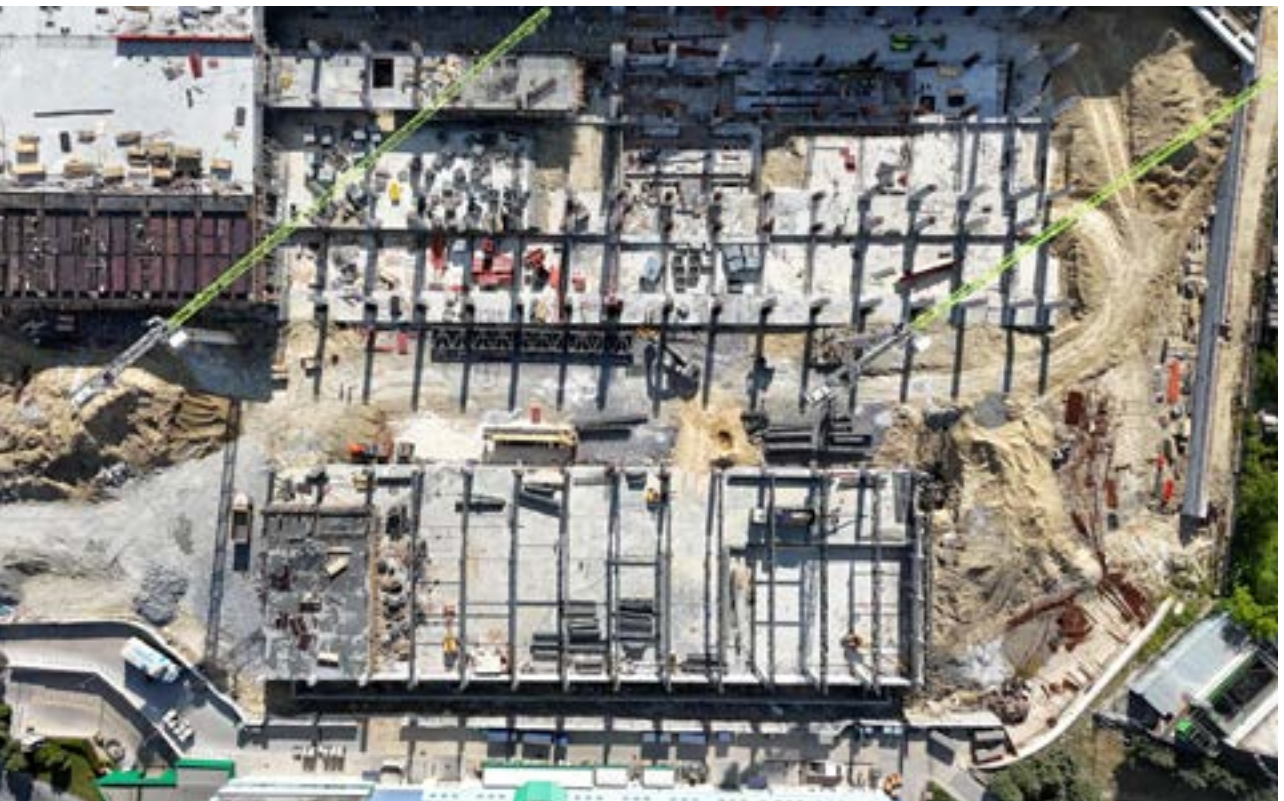


### Projects Detail

Job Type	Industrial Construction
Owner	Mercedes-Benz Türk A.Ş.
Project	HEX2025 Project New Finish Construction
Contract Type	Unit Price / Turn-key
Collaboration Period	Under Construction - 2023
Location	İstanbul, TÜRKİYE
Construction Area	20.000 sqm









## Projects

# EKU FREN

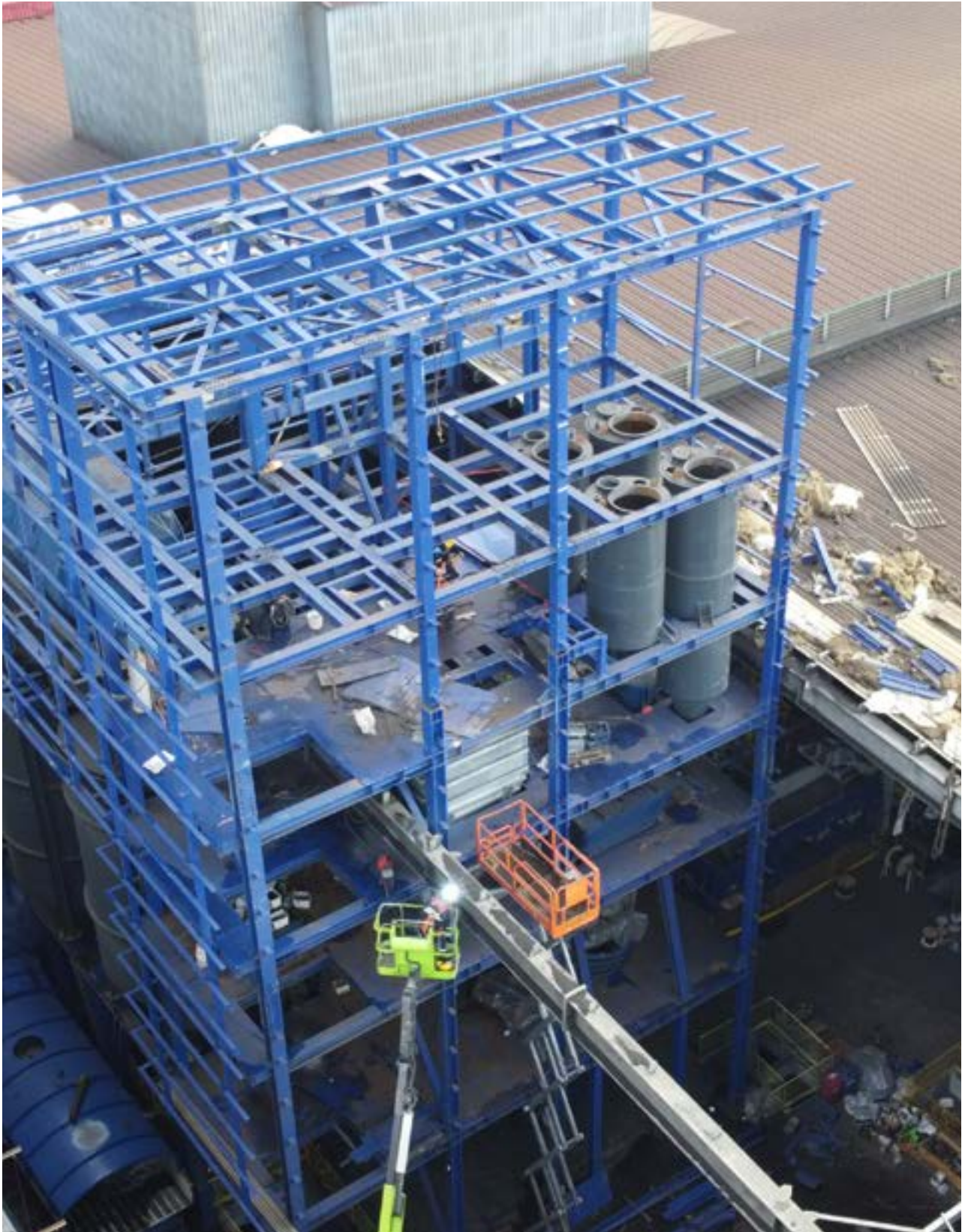


### Projects Detail

Job Type	Industrial Construction
Owner	EKU FREN VE DÖKÜM SANAYİ A.Ş
Project	Steel Structure Works and Silo Manufacturing and Assembly
Contract Type	Turn Key
Collaboration Period	2024-2025
Location	Kocaeli / TÜRKİYE
Construction Area	25.000 sqm







## Projects

# Lipton Tea Packaging Plant

**LIPTON**  
*Teas and Infusions*

### Projects Detail

Job Type	Industrial Construction
Owner	Lipton Teas and Infusions
Project	Lipton Tea Packaging Plant
Contract Type	Unit Price / Turn-Key
Collaboration Period	Under Construction - 2023
Location	Sakartya / TÜRKİYE
Construction Area	14.000 sqm









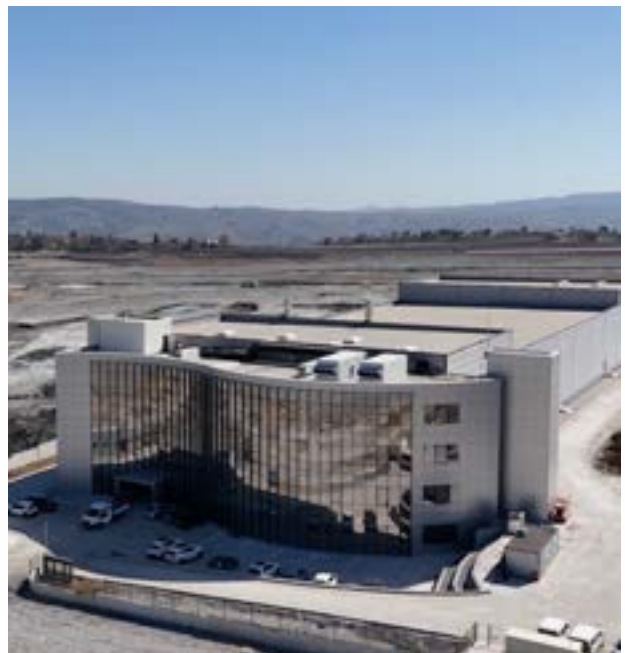
# Nesos Kandıra Production Facility



## Projects Detail

Job Type	Industrial Construction
Owner	Nesos Gıda San. A.Ş.
Project	Nesos Kandıra Production Facility
Contract Type	Unit Price / Turn-Key
Collaboration Period	Under Construction - 2023
Location	Kocaeli / TÜRKİYE
Construction Area	11.775 sqm







## Projects

Chemical Industry

# Polimer Ar-Ge



### Projects Detail

Job Type	Industrial Construction
Owner	Polimer Ar-Ge Plastik San. ve Tic. A.Ş.
Project	Polimer Ar-Ge Production and Administration Building
Contract Type	Turn-key
Collaboration Period	Under Construction - 2023
Location	Kocaeli, TÜRKİYE
Construction Area	11.000 sqm



## Projects

Defence Industry

# British Motor Company (BMC)



### Projects Detail

Job Type	Industrial Construction
Owner	British Motor Company (BMC)
Project	Automotive & Defense Industries Phase 1-Military Tank Factory
Contract Type	Lump-Sum / Turn-key
Collaboration Period	2019 - 2021
Location	Sakarya, TÜRKİYE
Construction Area	100.000 sqm











## Projects

# Toyota Automotive



### Projects Detail

Job Type	Industrial Construction
Owner	Toyota Automotive
Project	Automobile Factory Campus
Work Formation	Multi-Site
Collaboration Period	1994 - 2023
Location	Sakarya, TÜRKİYE
Construction Area	55.000 sqm













## Projects

# Hyundai Automotive



### Projects Detail

Job Type	Industrial Construction
Owner	Hyundai Automotive
Project	Automobile Factory Campus
Work Formation	Multi-Site
Collaboration Period	1998-2022
Location	Kocaeli, TÜRKİYE
Construction Area	65,000 sqm













## Projects

# Erdemir Steel

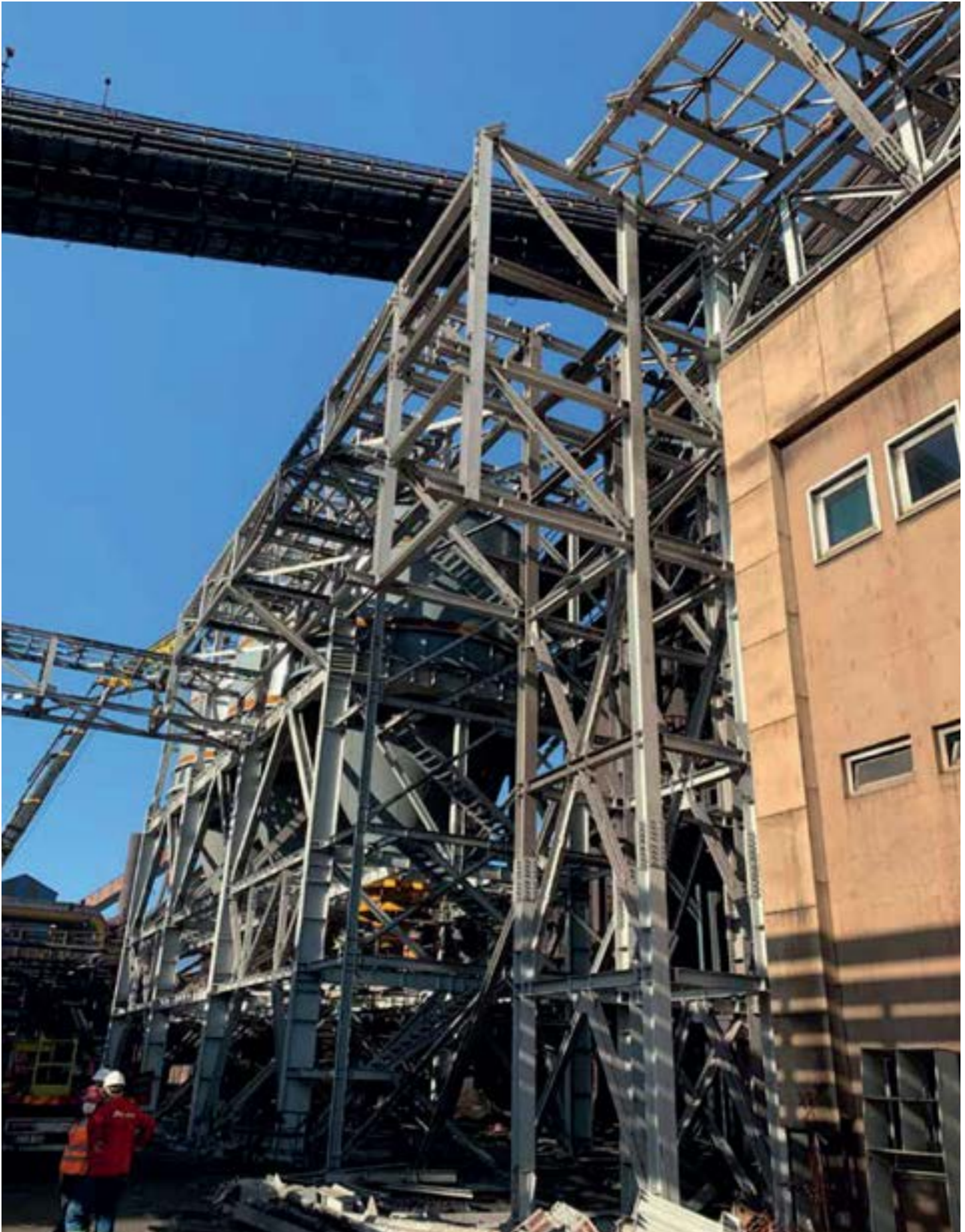


### Projects Detail

Job Type	Industrial Construction
Owner	Erdemir Steel
Project	Slag Granules Plant, No.3 Warehouse, Kızılcapınar Hydro Power Plant
Work Formation	Unir-Price / Turn-Key
Collaboration Period	2020-2021
Location	Zonguldak, TÜRKİYE
Construction Area	55,000 sqm











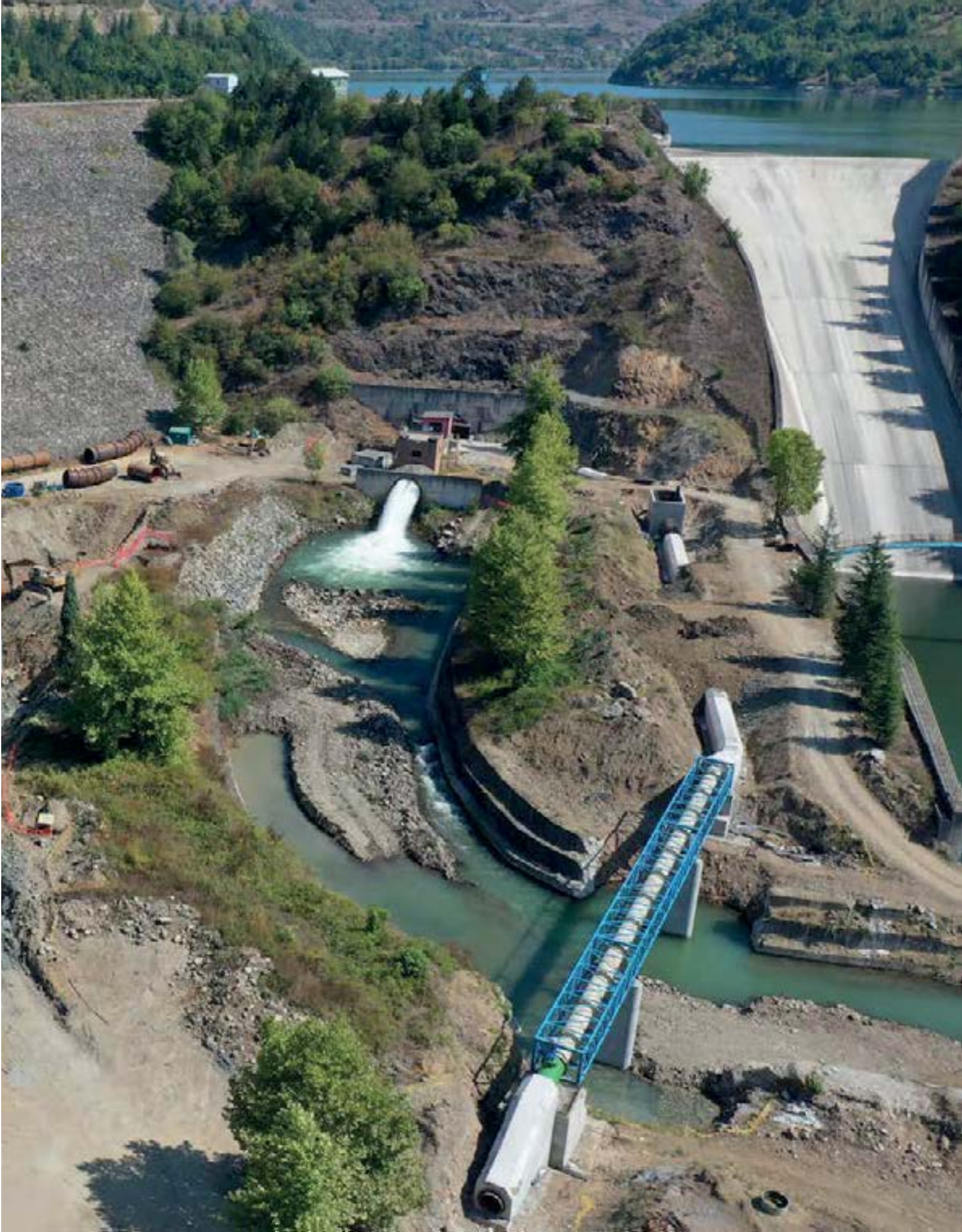














# Turkish Petroleum Refineries (TÜPRAŞ)



## Projects Detail

Job Type	Industrial Construction
Owner	Turkish Petroleum Refineries (TÜPRAŞ)
Project	Oxygen Recharge Units & Buildings
Work Formation	Multi-Site
Collaboration Period	2017-2022
Location	Kocaeli, Türkiye
Construction Area	8.500 sqm

\*\* It is not allowed to take & publish pictures of any part of the facilities due to Owner's contractual restriction.





# Turkish Petroleum Refineries (TÜPRAŞ)



## Projects Detail

Job Type	Industrial Construction
Owner	Turkish Petroleum Refineries (TÜPRAŞ)
Project	Laboratories & Auxiliary Buildings
Work Formation	Multi-Site
Collaboration Period	2018-2019
Location	Kırıkkale, Türkiye
Construction Area	3.500 sqm

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## Projects

# Assan Aluminium Company



### Projects Detail

Job Type	Industrial Construction
Owner	Assan Aluminium Company
Project	Aluminum Factory Campus
Work Formation	Unit Price / Structural Works
Collaboration Period	2017-2018
Location	Kocaeli, Türkiye
Construction Area	10.000 sqm











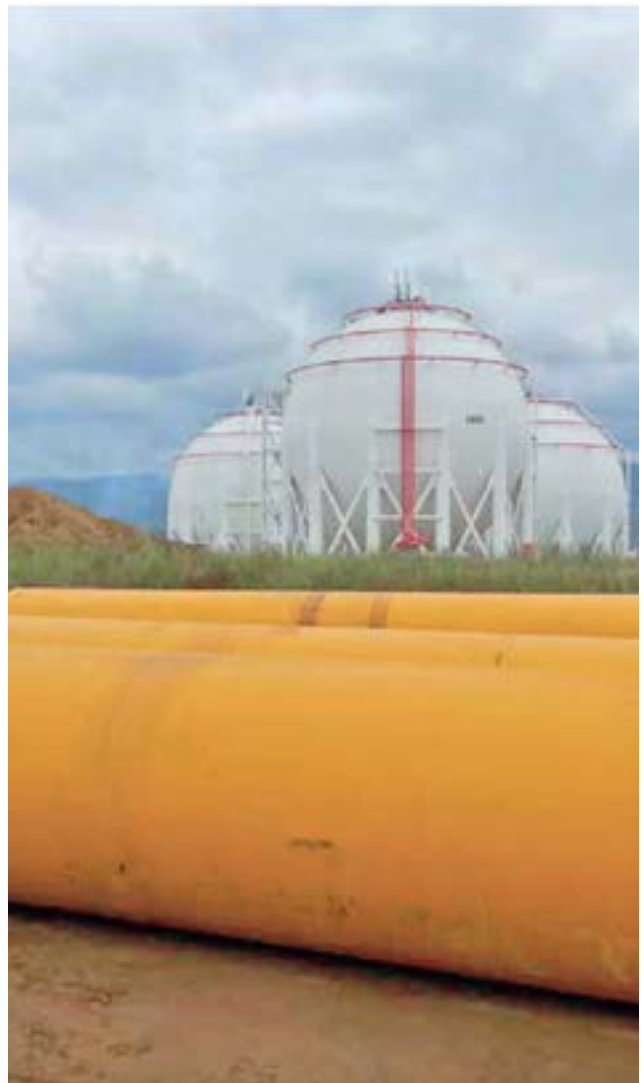
# OMV Petrol Ofisi



## Projects Detail

Job Type	Industrial Construction
Owner	OMV Petrol Ofisi
Project	LNG Storage Facility
Work Formation	Lump-Sum / Structural Works
Collaboration Period	2013
Location	Kocaeli, TÜRKİYE
Construction Area	20,000 sqm







## Projects

# Bridgestone Sabancı



### Projects Detail

Job Type	Industrial Construction
Owner	Bridgestone Sabancı (BriSa)
Project	Tyre Manufacturing Facilities
Work Formation	Multi-Site
Collaboration Period	2007-2016
Location	Kocaeli, Türkiye
Construction Area	10.400 sqm

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# Otokar Automotive & Defense Industries

# Otokar

## Projects Detail

Job Type	Industrial Construction
Owner	Otokar Automotive & Defense Industries
Project	Electromagnetic Compatibility Laboratories
Work Formation	Multi-Site
Collaboration Period	2010-2014
Location	Sakarya, Türkiye
Construction Area	5.700 sqm

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# Ford Motor Company Cars



## Projects Detail

Job Type	Industrial Construction
Owner	Ford Motor Company - Cars
Project	Additional Production Lines
Work Formation	Multi-Site
Collaboration Period	2011-2014
Location	Kocaeli, Türkiye
Construction Area	7.500 sqm

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## Projects

# Ford Motor Company Trucks



### Projects Detail

Job Type	Industrial Construction
Owner	Ford Motor Company - Cars
Project	Extention of Existing Buildings
Work Formation	Multi-Site
Collaboration Period	2011-2013
Location	Eskişehir, Türkiye
Construction Area	5,800 sqm

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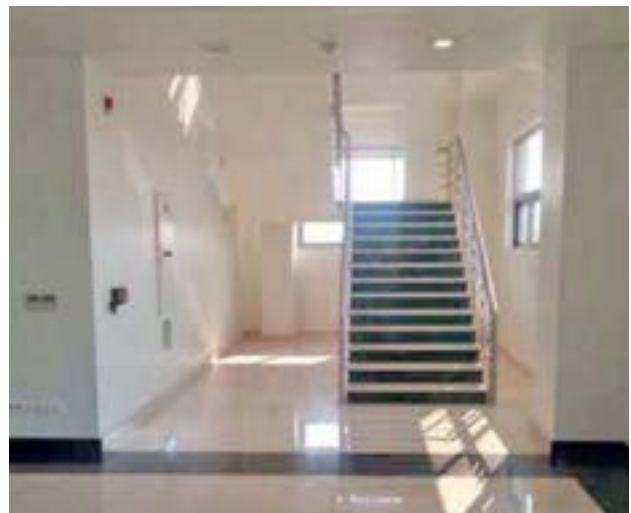
## Projects

# Hyundai Steel Company



### Projects Detail

Job Type	Industrial Construction
Owner	Hyundai Steel Company
Project	Automobile Steel Factory
Work Formation	Lump-Sum / Turn-Key
Collaboration Period	2012
Location	Kocaeli, TÜRKİYE
Construction Area	22,000 sqm









# Knauf Gmbh



## Projects Detail

Job Type	Industrial Construction
Owner	Knauf Gmbh
Project	Insulation Materials Factory
Work Formation	Design - Build
Collaboration Period	2012
Location	Eskişehir, TÜRKİYE
Construction Area	12,000 sqm







# Posco Assan TST



## Projects Detail

Job Type	Industrial Construction
Owner	Posco Assan TST
Project	Stainless Steel Production Factory
Work Formation	Unit-Price / Structural Works
Collaboration Period	2012
Location	Kocaeli, TÜRKİYE
Construction Area	8,500 sqm





## Projects

# CPL Cartonplast Group Gmbh



### Projects Detail

Job Type	Industrial Construction
Owner	CPL Cartonplast Group Gmbh
Project	Reusable Layer Pad Factory
Work Formation	Unit Price / Turn-Key
Collaboration Period	2014
Location	Bursa, Türkiye
Construction Area	6,000 sqm









# Rönesans Botaş Natural Gas Storage Facility



## Projects Detail

Job Type	Industrial Construction
Owner	Renaissance Heavy Industries
Project	Natural Gas Storage Facility
Work Formation	Unit Price / Turn-Key
Collaboration Period	2018
Location	Silivri, Türkiye
Construction Area	157,000 sqm





## Projects

# Toyota Tsusho Corporation



### Projects Detail

Job Type	Industrial Construction
Owner	Toyota Tsusho Corporation
Project	Automobile Parts Factory
Work Formation	Lump-Sum / Turn-Key
Collaboration Period	2014
Location	Sakarya, Türkiye
Construction Area	7,500 sqm



## Projects

# Volvo & Renault Trucks



### Projects Detail

Job Type	Industrial Construction
Owner	Volvo & Renault Trucks
Project	Truck Dealer Facility
Work Formation	Lump-Sum / Turn-Key
Collaboration Period	2008
Location	Kocaeli, Türkiye
Construction Area	9,600 sqm





## Projects

# Goodyear Tires



### Projects Detail

Job Type	Industrial Construction
Owner	Goodyear Tires
Project	Tire Production Factory
Work Formation	Multi-Site
Collaboration Period	1996-2007
Location	Sakarya, Türkiye
Construction Area	9,000 sqm



## Projects

# Hendek Galvanized Steel

### Projects Detail

Job Type	Industrial Construction
Owner	Hendek Galvanized Steel
Project	Galvanized Steel Manufacturing Facility
Work Formation	Lump-Sum / Turn-Key
Collaboration Period	2017
Location	Hendek, Türkiye
Construction Area	7,500 sqm







# CIVIL PROJECTS

**Projects**

# **CIVIL** PROJECT

**İSTANBUL STOCK EXCHANGE (BİST)**

**SAKARYA CHAMBER OF CAR DEALERS**

**PALMIYE RESIDENCE**

**DEMİRCİOĞLU GROUP**

**BURGER KING**

**SABANCI UNIVERSITY**

**KOCAELİ COLLEGE**

**HARMANLIK MANSIONS**

**YANIKKÖY VILLAS**

**YEDİEVLER ESTATES**

**HACİMERCAN HOUSES**

**VOLVO & RENAULT TRUCKS**



# İstanbul Stock Exchange

## Projects Detail

Job Type	Commercial Construction
Owner	İstanbul Stock Exchange (BİST)
Project	Stock Exchange & Office Buildings
Work Formation	Lump-Sum / Turn-Key
Collaboration Period	2017
Location	İstanbul Türkiye
Construction Area	35,500 sqm







## Projects

# Sakarya Chamber of Car Dealers

### Projects Detail

Job Type	Commercial Construction
Owner	Sakarya Chamber of Car Dealers
Project	Car Dealers Center
Work Formation	Lump-Sum / Turn-Key
Collaboration Period	Under Construction - 2020
Location	Sakarya, Türkiye
Construction Area	33,000 sqm



## Projects

# Sabancı University

Sabancı  
Üniversitesi

### Projects Detail

Job Type	Educational Construction
Owner	Sabancı University
Project	Art Center & Dormitories
Work Formation	Multi-Site
Collaboration Period	2016-2020
Location	İstanbul, Türkiye
Construction Area	15,000 sqm







## Projects

# Kocaeli Collage

### Projects Detail

Job Type	Educational Construction
Owner	Kocaeli Kultur Collage
Project	K-12 School Buildings
Work Formation	Lump-Sum / Turn-Key
Collaboration Period	2015
Location	Kocaeli, Türkiye
Construction Area	10,500 sqm













# PROFESSIONAL REFERENCES OF FOUNDERS

## Projects

# PROFESSIONAL REFERENCES OF FOUNDERS

**AMUR GPP PROJECT**

**LOGISTICS PLATFORM COMPLEX**

**TOBOLSK ECU (ETHYLENE CRACKER UNIT)**

**STAR PROJECT CHANNEL TO THE SEA PACKAGE**

**DEEP CONVERSION COMPLEX VOLGOGRAD REFINERY**

**TOBOLSK PP FINISHING WORKS**

**RUSVINYL IKRA PROJECT**

**PROPANE DEHYDROGENATION (PDH) PLANT**

**KHABAROVSK REFINERY HYDROPROCESSING PLANT**

**URAL INDUSTRIAL POWER PLANT**

**DENIZLI CEMENT PLANT**

**ACRYLIC PRODUCTION PLANT**

**PEPSI BOTTLING PLANT**

**COCA-COLA BOTTLING PLANT**

**L.M PACKAGING PLANT**

**B.A.T. FACTORY**

**GREAT MAN - MADE RIVER PROJECT**

**SANGACHAL TERMINAL**

**SUPSA TERMINAL**

**SELAHUDDIN REFINERY**

**MIDDLE ANATOLIA REFINERY**

**PLASTIC RECYCLING PLANT**

**SOLVERTAS PLANT**

**PROCTER & GAMBLE PLANT**

**150 MW COMBINED CYCLE POWER PLANT**

**55 MW COMBINED CYCLE POWER PLANT**

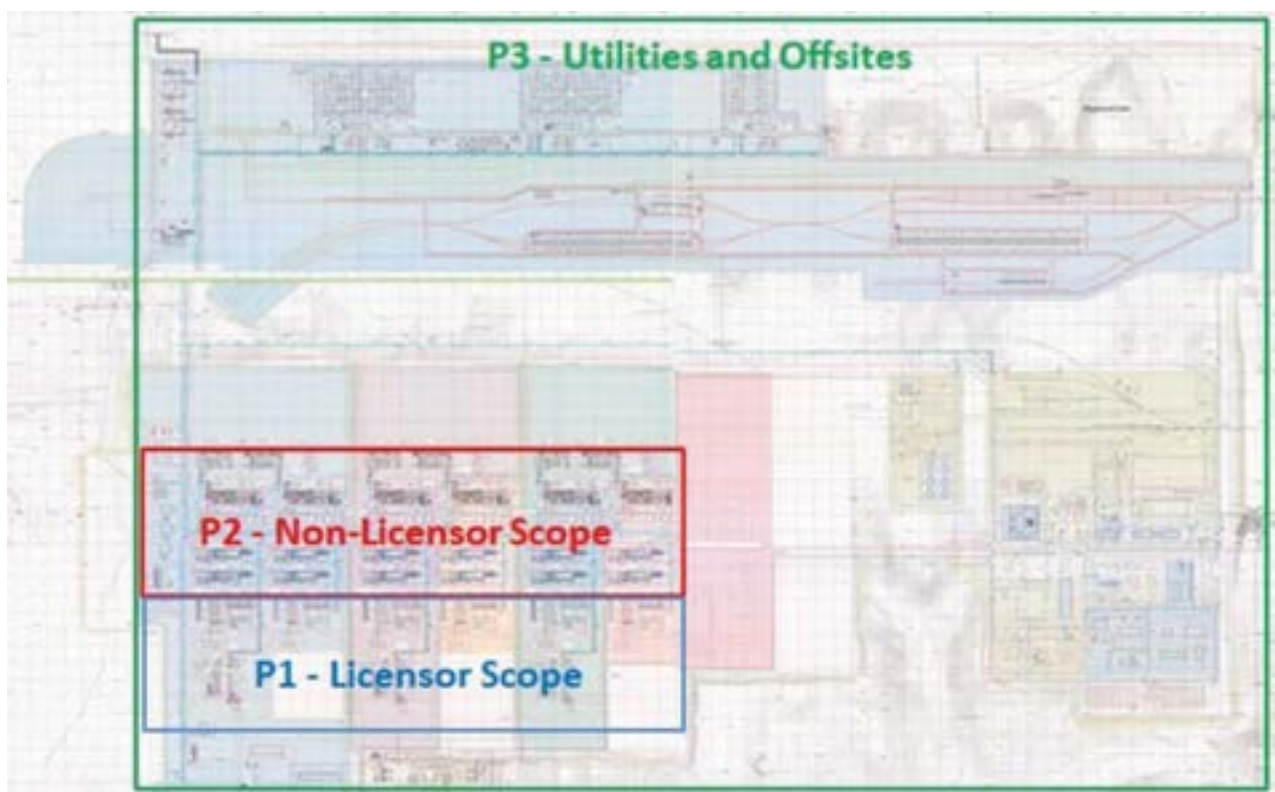


# Amur GPP Project



## Projects Detail

Owner	GAZPROM Pererabotka
EPC Contractor	CPECC
Location	Mozcow / Russia



# Amur GPP Project



## Projects Detail

Owner	GAZPROM Pererabotka
EPC Contractor	Tecnimont + SINOPEC
Location	Moscow / Russia







# Logistics Platform Complex

## Projects Detail

Owner	SIBUR
General Contractor	PROMSTROY Group
Location	Tobolsk / Russia



# Tobolsk ECU (Ethylene Cracker Unit)

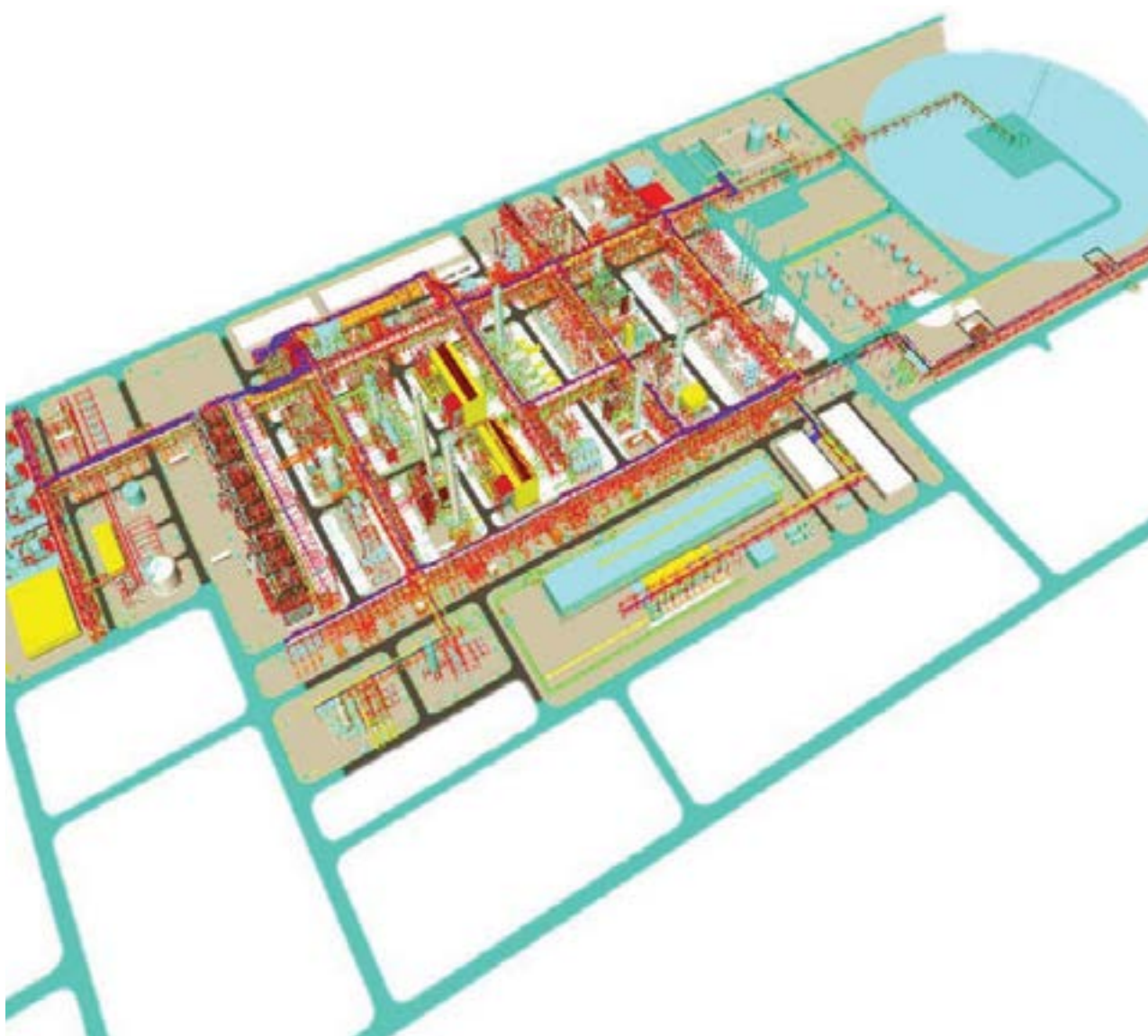


## Projects Detail

Feed	Linde
Licensors	Linde, INEOS
Client	ZapSibNeftekhim
Owner	SIBUR
Capacity	1.5 mtpa
Location	Tobolsk / Russia

## Scope of Work

Building Works	EPC	Mechanical Works	EC
Piling Works	PC	Steel Structure	EC
Painting Works	PC	Piping Works	EC
Insulation Works	PC	E&I Works	EPC











# Star Project Channel to the Sea Package



## Projects Detail

Owner	SOCAR Turkey Energy A.S.
Client	SOCAR Turkey Aegean Refinery
EPC Contractor	TSGI (TR,SAIPEM,GS,ITOCHU)
Scope Of Work	Civil, Steel, Piping, Painting and Insulation Works
Location	İzmir / Türkiye







# Deep Conversion Complex Volgograd Refinery

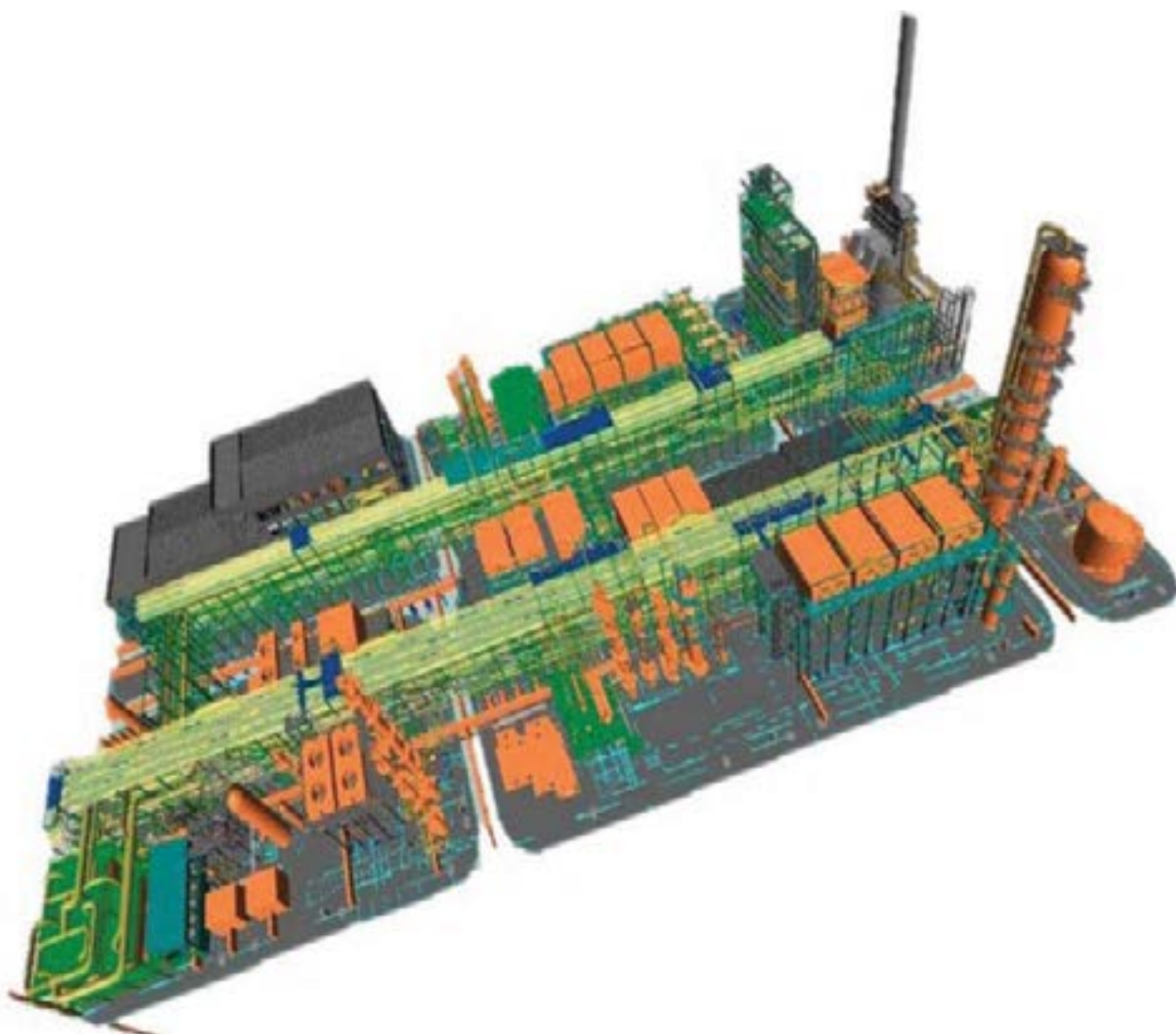


## Projects Detail

FEED+ EPC Contr.	Tecnicas Reunidas (TR)
Licensors	UOP, EXXON, FLUOR, HALDOR TOPSOE, TR.
Client	LUKOIL
Capacity	3,5 mln t/y,

## Scope of Work

Building Works	EPC	Painting Works:	PC
Steel Structure Works	EPC	Piling Works	PC
Piping Works	EC	Insulation Works	PC
Mechanical Works	EC	E&I Works	EPC











# Tobolsk PP Finishing Works

Projects Detail

Client

SIBUR





Projects

# Rusvinyl IKRA Project

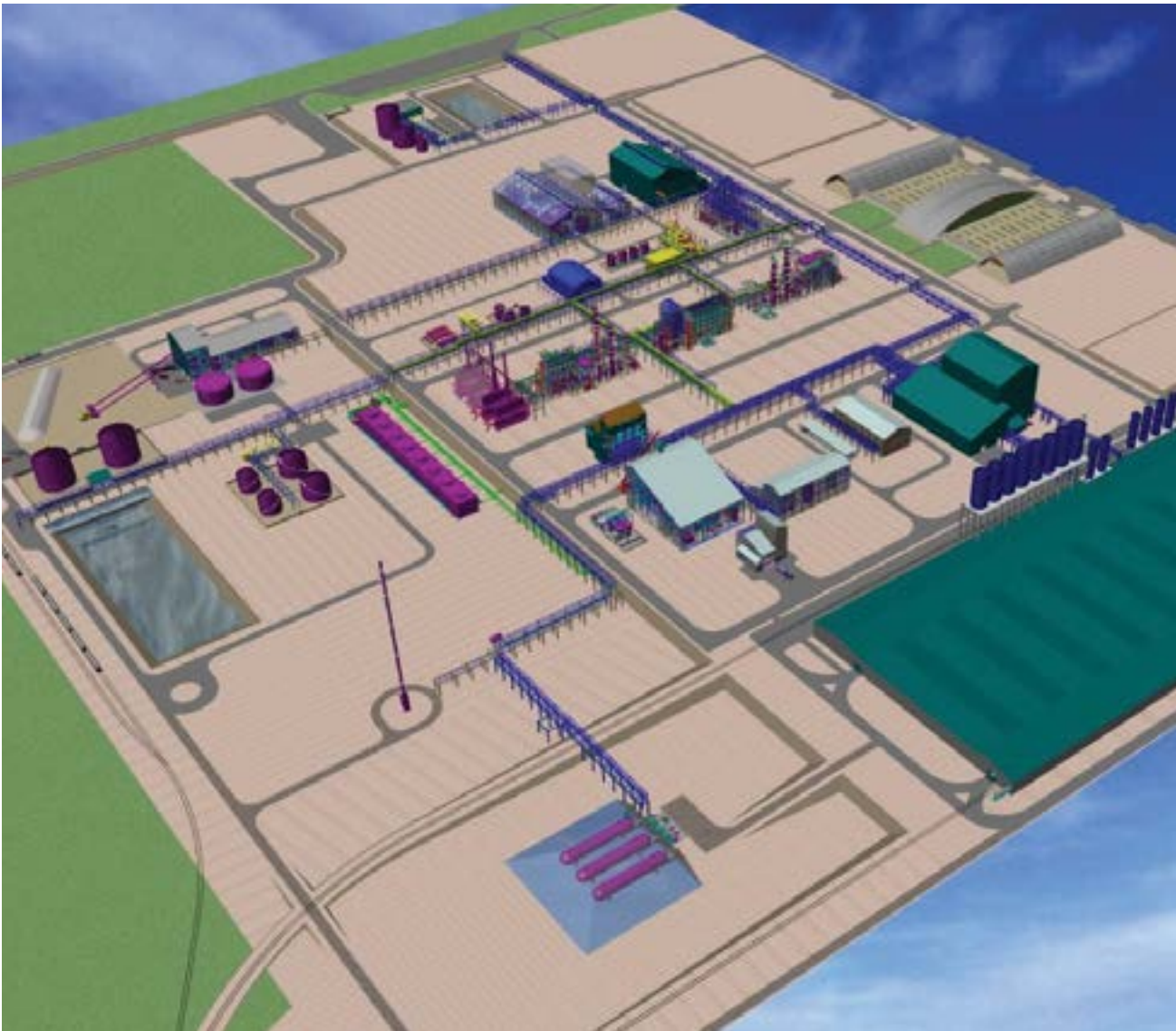
## Polyvinyl Chloride Complex (PCC)

## Vinly Chloride Monomer (VCM) Unit



Projects Detail	
EPC Contractor	Technip (RUS)
Licensor	SOLVAY and SOLVIN
Client	RUSVINYL (JV of SOLVAY and SIBUR)
Capacity	330,000t/y

Scope of Work			
Building Works	EPC	E&I Works	EPC
Piping Works	EC	Others	C
Painting Works	PC		
Insulation Works	PC		





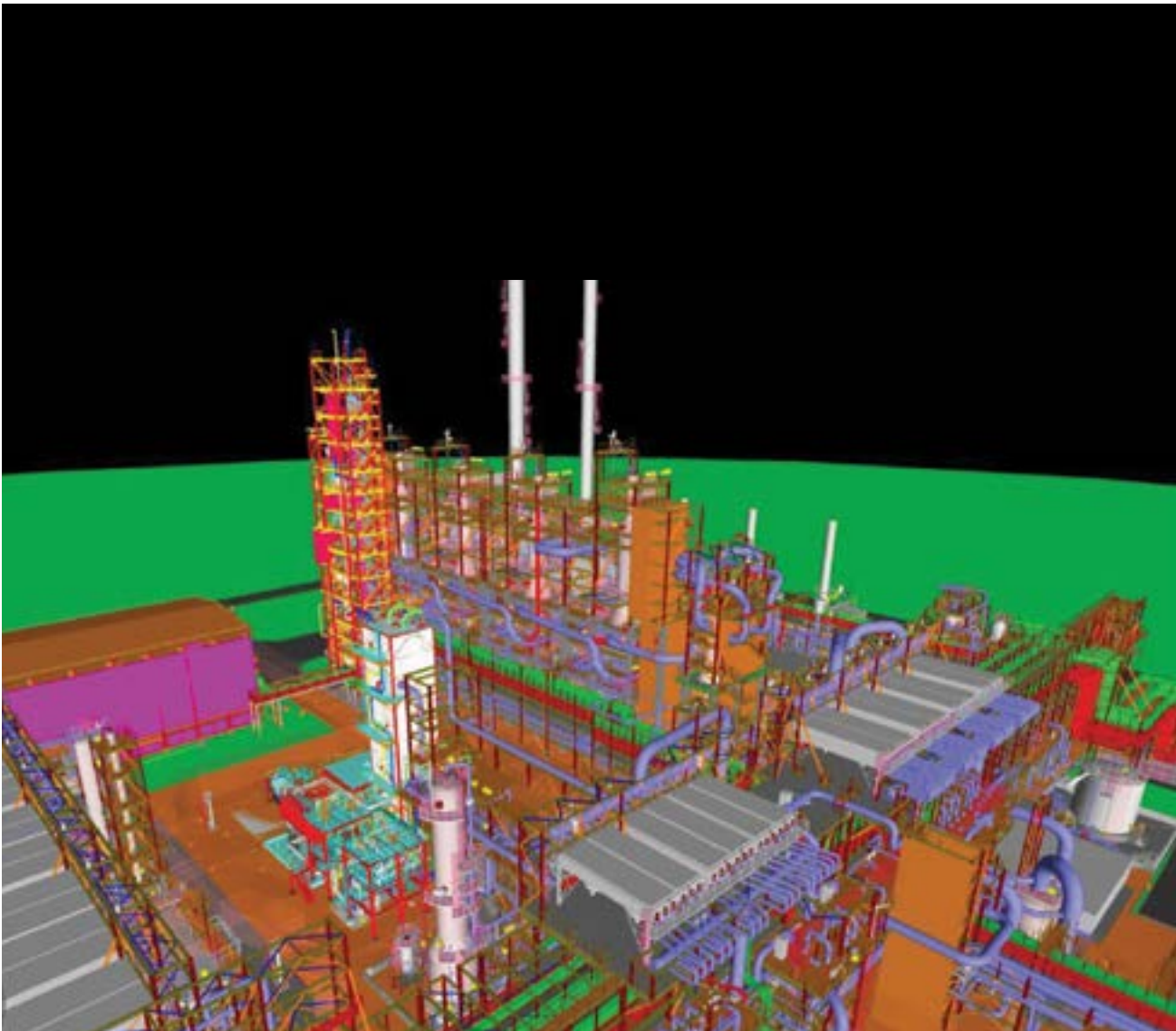


# Propane DeHydrogenation (PDH) Plant



Projects Detail	
FEED + EPC Contr.	Maire Tecnimont (TCM)
Licensor	UOP
Client	Tobolsk Polymer LLC (JSC Sibur Holding)
Owner	SIBUR
Capacity	510,000 t/y PDH

Scope of Work			
Mechanical Works	EC	Others	C
Piping Works	EC		
Painting Works	PC		
Insulation Works	PC		













# Khabarovsk Refinery Hydroprocessing Plant



Projects Detail	
EPC Contractor:	Tecnicas Reunidas (TR)
Client	ALLIANCE OIL COMPANY
Features & Capacity	Hydrocracking - 500.000 million tpy Hydrotreating - 1.18 million tpy
Licensor	SHELL GS Hydrogen Production - 21.000 tpy
Licensor	Foster Wheeler Sulfur Processing - 13.300 tpy
Licensor	Technip-KTI Catalytic Reforming - 350.000 tpy Refining Capacity - 100.000 bpd
Location	Khabarovsk / Russia

Scope of Work			
Building Works	EPC	Insulation Works	PC
Piling Works	PC	Others	C
Painting Works	PC		
Piping Works	EC		









# Ural Industrial Power Plant

## Projects Detail

Client	UPUP
EPC	PSG
Location	Salekhard / Russia





# Denizli Cement Plant

## Projects Detail

Employer	Denizli Cimento San. Tic. A.S.
Project	Prokon Muhendislik
Location	Denizli / Türkiye



## Projects

# Acrylic Production Plant

### Projects Detail

Employer	Yalova Elyaf ve Iplik San. A
Location	Yalova / Denizcalı





# Great Man - Made River Project

## Projects Detail

Employer	GMRA-Libya, STFA Const.Co.
Location	Sirte, Libya



# Sangachal Terminal

## Projects Detail

Employer	AIOC - Azerbaijan International Oil Company
Main Contractor	AZFEN J.V
Location	Baku, Azerbaijan



## Projects

# Supsa Terminal

### Projects Detail

Employer	GPC Georgian Pipeline Company - Kvarner - John Brown
Contractor	AZFEN J.V
Location	Supsa / Georgia



# Selahuddin Refinery

### Projects Detail

Employer	Techrip, La Defece, Franc
Contractor	Gama A.fi., Turkey
Location	Baiji, Iraq

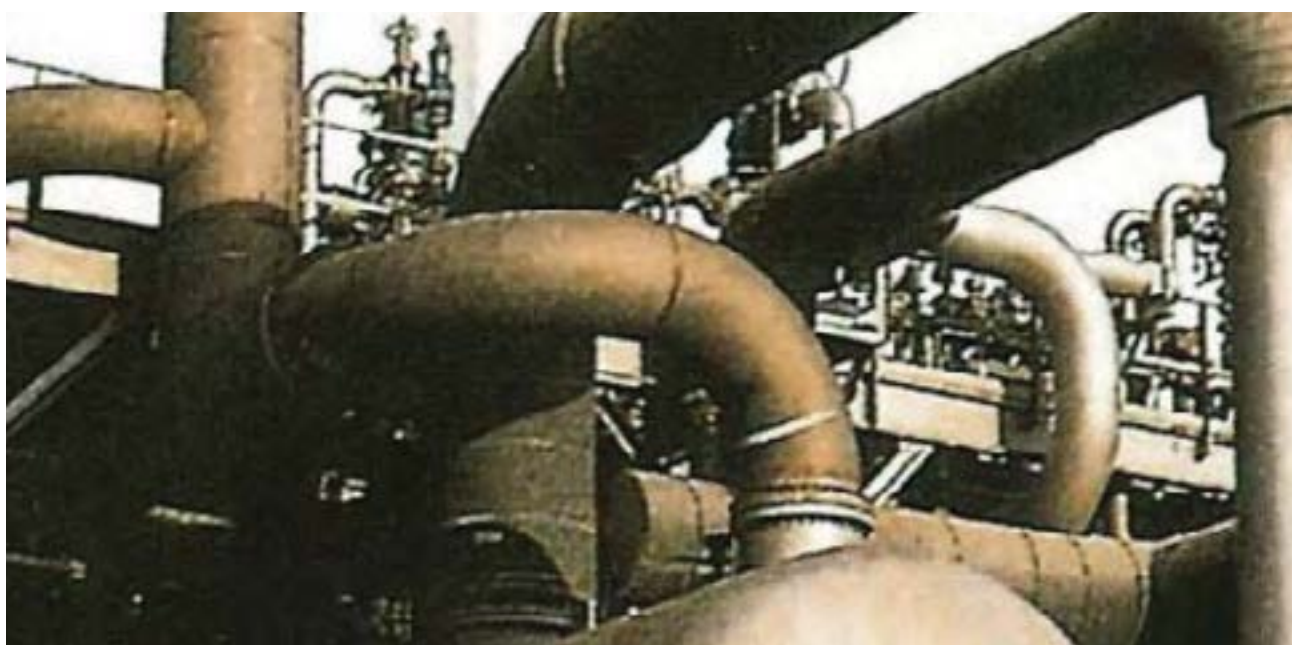




# Middle Anatolia Refinery

## Projects Detail

Employer	Tupras
Contractor	Enkut Consortium
Location	K1nkkale, Turkey



# Procter & Gamble Plant



## Projects Detail

Owner	Procter & Gamble
Client	SOCAR Turkey Aegean Refinery
Work Formation	Turn-Key
Location	Barispol, Kiev / Ukraine





# 150 MW Combined Cycle Power Plant

## Projects Detail

Client	Zorlu Energy
Work Formation	Turn-Key
Location	Kayseri / Türkiye



# 55 MW Combined Cycle Power Plant

## Projects Detail

Client	Zorlu Energy
Work Formation	Turn-Key
Location	Ankara / Türkiye







# CIVIL PROJECTS

**Projects**

# **CIVIL** PROJECT

**360 SHOPPING MALL**

**EXPO 2000 OFFICE PROJECT**

**SOTSINVESTBANK HEAD QUARTER BUILDING**

**GRAND HOTEL RADISSON S.A.S HOTEL**

**RADISSON HOTEL**

**ATHENEE PLACE HILTON HOTEL**

**HOLIDAY INN**

**HILTON HOTEL**

**GRAND LUBLIN HOTEL**

**GRAND HOTEL MARRIOT**



# 360 Shopping Mall

## Projects Detail

Grand house

Core & Shell 53.000 m<sup>2</sup> Shopping Mall

Location Cherepovets / Russia



## Projects

# EXPO 2000 Office Project

## Projects Detail

Raiffeisen Evolution

Core & Shell 18.000 m<sup>2</sup> Office Project

Location Sofia / Bulgaria

**PROJECT MANAGEMENT**  
Raiffeisen Evolution  
Project Development Center

**РЕ**

ПРОЕКТ МЕНЕДЖМЪНТ  
ЕКСПО 2000 Реал Естейт ЕООД  
Витоша, София

**EXPO 2000 REAL ESTATE EOOD**  
A PROJECT OF RAIFFEISEN GROUP  
**ЕКСПО 2000 РИЪЛ ЕСТЕЙТ ЕООД**  
ПРОЕКТ НА РАЙФАЙЗЕН ГРУП

Разрешително за строеж № 674/28.11.2002

**GENERAL CONTRACTOR**  
Pentaflex (Bulgaria) Ltd.  
126 Vitosha Blvd., 1400 Sofia

**САЙН АРХИТЕКТУРА**  
Pentaflex (Bulgaria) OOD  
1400 Sofia, Str. Bistrica 126

**CONSTRUCTION MANAGEMENT**  
**С**

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Витоша, София

**INDEPENDENT SUPERVISORY CONTROL**  
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1418 София, ул. Николаевски мост 72

**SUBCONTRACTOR**  
Zanabek Group - PE - Penzhi, Penzhi, Minsk



**PROJECT**  
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**ПРОЕКТИРНИ**  
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tel./mea. (+359 2) 9331 888





# Sotsinvestbank Head Quarter Building

## Projects Detail

Sotsinvestbank

Turn Key 22.000 m<sup>2</sup> Head Quarter Building

Location Ufa / Russia



# Grand Hotel Radisson S.A.S Hotel





# Radisson Hotel

## Projects Detail

Location

Kiev / Ukraine



# Athenee Place Hilton Hotel

## Projects Detail

Location

Bucharest / Romania





# Holiday Inn

## Projects Detail

Location

Katowice / Poland



# Hilton Hotel

## Projects Detail

Location

Sofia / Bulgaria





# Grand Lublin Hotel

## Projects Detail

Location

Lublin / Poland



# Grand Hotel Marriot

## Projects Detail

Location

Bucharest







# **Winter, Construction**

## EXECUTION PLAN



## **Winter, Construction Execution Plan**

### **1. INTRODUCTION**

The Purpose of this Construction Execution Plan is to define and communicate the nature and objectives of the project under severe weather conditions. Please note that SAYIN STROY has an experience of working under severe weather conditions as shown on his experience lists and references.

### **2. THE PURPOSE OF THE PLAN**

This Construction Execution Plan (CEP) is the high-level strategic execution plan that the SAYIN STROY will implement to successfully manage the Construction of Scope of Works under severe winter conditions.

The plan identifies the key elements in the construction of the Project and the strategy to be adopted in order to deliver the Project in accordance with the Project requirements, with particular emphasis on Health, Safety, Security, Environmental, Quality, Technical Performance, Schedule, and Budget requirements.

### **3. REFERENCE PROCEDURES**

The procedures to be adopted for the execution of the works are listed within the Project Quality Plan. These procedures along with the specific execution plans and the Contract will form the basis of the management of the Construction function.

### **4. METHOD**

This Project will be realized at Tobolsk Russian Federation, this area has specific ambient winter conditions, where the freezing temperatures of -23°C to -40°C and the high winds blowing with velocity up to 20 m/s. Snow drift around the installed construction areas will create an additional obstacle. As such, outside works are become very hard from end of Nov until end of Jan.

SAYIN STROY will take precautions like covering the workspace with a geotextile or similar materials as shown on next pages. SAYIN STROY have an experience to work severe climatic conditions shown in experience list presented previously in Technical Proposal documents.

## 5. SPECIFIC WINTER-SNOWHIT & SEVERE PROJECT CONSTRUCTION SCHEDULE:

With respect for the extreme winter conditions, SAYIN STROY Project management will do the followings:

- Increase the workload and manpower during spring and summer to minimize the construction works at site in winter.
- Optimize the outside works during the summer period (April - October).
- Complete the form and erect the concrete walls and foundations,
- Perform prefabrication as much as possible in winter; create workable conditions for works during winter period.
- Minimize the site erection works by prefabricating in Tobolsk or in Turkey.
- Integrate the equipment in skid modules to their locations to create coverableworkable area to work in.

In order to meet the project time schedule including the intermediate contractual milestones following specific measure will be taken:

- Site mobilizations as soon as possible before severe weather conditions starts.
- Fast track prefabrication will be performed in winter months in order to start site activities for the piping and erection works in spring ( pipe racks and equipment ships).
- Accelerate the procurement activities for the bulk material (piping, insulation, electrical heat tracing, and instrumentation etc) in order to meet the schedule.
- Realization of concrete works plus steel roofs before the winter periods.
- Begin working inside roofed areas during the winter period.
- Install all piping and equipment skids before the winter.

## CONCLUSION

Taking into account this specific ambient severe weather conditions and having in mind that the Tobolsk project is a fast track project considering the annual working periods.

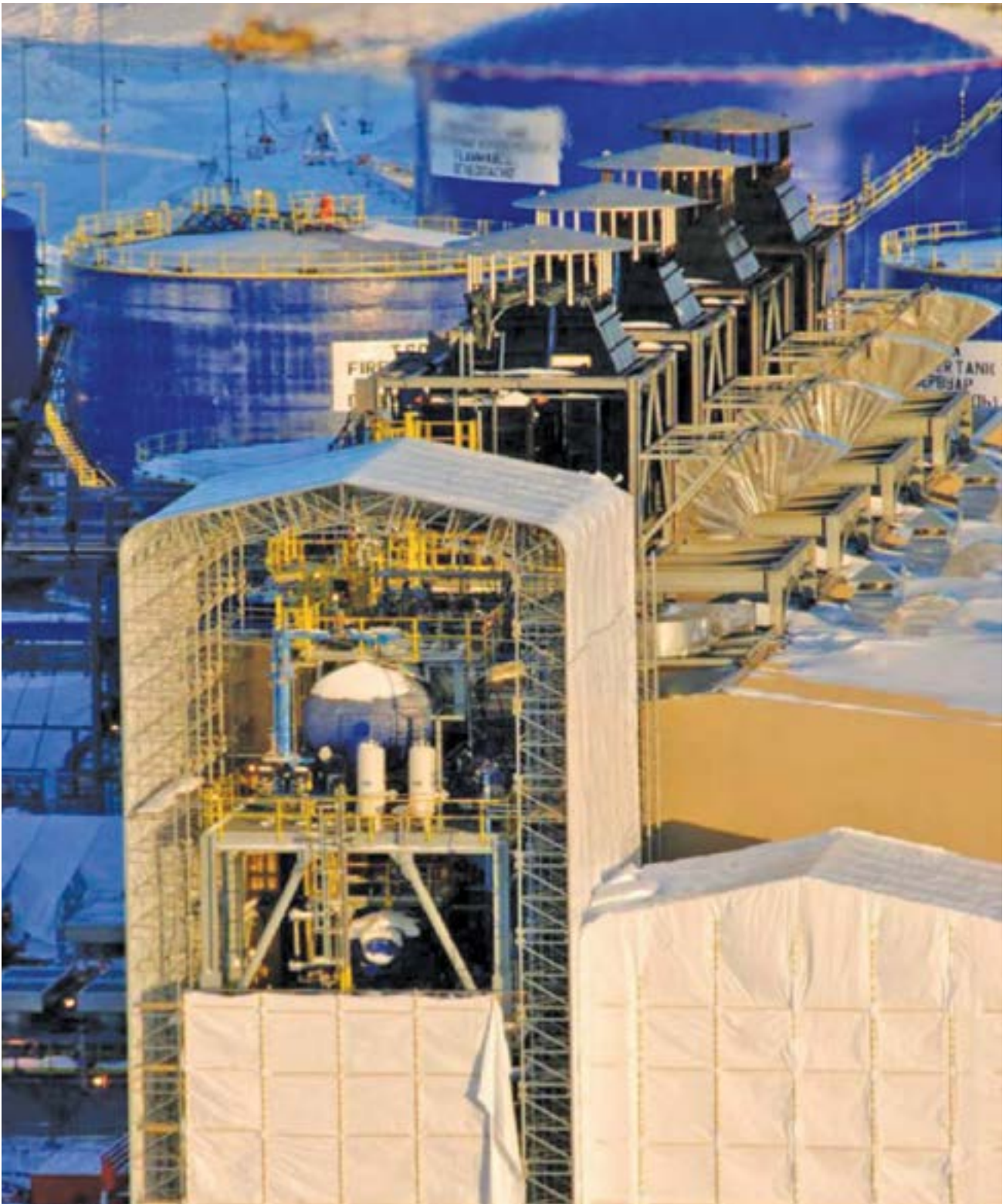
The only way to achieve the project schedule SAYIN STROY is going to address a specific execution plan regarding prefabrications versus construction and site erection works.

Generally speaking, immediately after project award, SAYIN STROY will mobilize the project team and structure.

Please see attached pictures for severe weather applications that SAYIN STROY did in the past operations in Russian Federation.

Equipments will be covered with a textile material and the severe winter-work will be performed underneath.





Equipment to be worked on covered via textile material, scaffolding material serves both for scaffolding and used as steel structure support for textile



Processing compressor group covered via shelter type steel-structure supported textile



Inside view of sheltered unit area



## **1. EQUIPMENTS**

### **MAINTENANCE AND ENGINE HEATERS (WEBASTO)**

SAYIN STROY Machinery Park has a lot of machines and there are the precautions taken in winter season to keep them in ready to use and maintained conditions.

1. All anti-freeze liquids replaced before winter and new ones will stand down to -65, -70 celcius degree, and this is checked via anti-freeze point measuring device.
2. All the vehicles, cranes, trucks i.e all equipments having an engine preheated 10 minutes before operating the engine using engine heaters (webasta) as shown in attached pictures. After reaching 90 degree as engine block temperature then engine will be operated and heater stopped.
3. After September 15th diesel fuel havingaddictive fuel used.
4. In all the equipments bought or rented and made in Russian Federation, we are using VMGZ brand hydraulic oil. This oil stands down to -35 degree celcius.
5. In other construction equipments MOBIL DTE 15 hydraulic oil used and this will stand down to -48 degree celcius.
6. In all small cars and automobiles, small type 220 volt engine heaters used.
7. For all big trucks and construction equipments bigger type 220 volt engine heaters used.
8. Winter tyres used in winter.
9. All the equipments parked in a closed area and their batteries removed, maintained before winter.
10. All the batteries acid level of equipments adjusted to 1350 borne and this prevent freezing down to -45 degree celcius.
11. All the equipments are not operated below -30 due to the problems in hydraulic sytems, mechanical systems below this temperature.
12. Concrete plant has steam boiler and concrete preparation performed with 90 degree celcius water and antifreeze additives.
13. Transmixers and concrete batching plants well insulated to prevent freezing.
14. Tower cranes are not operated below -35 degree celcius and over 16 km per hour wingd speed.

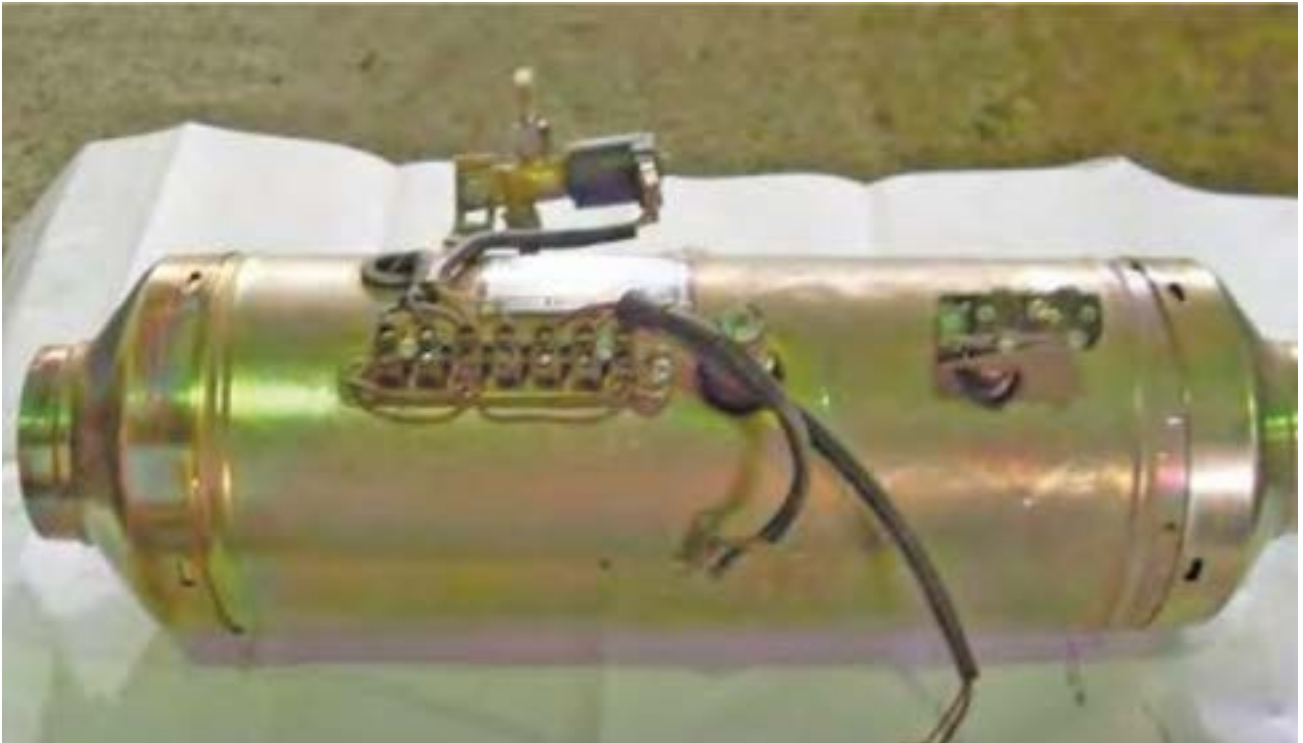


TRUCK ENGINE HEATER



TRUCK ENGINE HEATER





MOBILE CRANE ENGINE HEATER



MOBILE CRANE ENGINE HEATER NAMEPLATE



BIG SIZE ENGINE



AUTOMOBILE ENGINE HEATER





AUTOMOBILE ENGINE HEATER



MOBILE CRANE ENG

**Подогреватель  
предпусковой  
дизельный**

**14ТС-10**

ТУ 4591-004-40991176-2003

Теплопроизводительность	15 кВт
Топливо	Дизельное
Напряжение питания	24В

Заводской № **67655**



MT14

ООО "Адверс"  
Сделано в России

2006						2007						2008
1	2	3	4	5	6	7	8	9	10	11	12	

28/01/2010

TRUCK HEATER



## 2. CASTING CONCRETE IN WINTER

( Temp below -5 °q

MATERIAL	Correct Action
CEMENT-Dosage	Min 300 kg/ m3
CEMENT-Type	PC-42.5 type
WATER	Heat up to 90 0C
Heat up to 60 0C	AGGREGA
High quality admixture, and superplastificator	
FORMWORK	Wood, no sharp edges, oval sections
PROTECTION	Protection cover, protection from wind
HEATING	Heating via steam.
PROCESS	Prefabrication, Concrete pouring in place with protection measures.
WORKING HOURS	Daytime
SAND STOCK	Closed area
< 50 cm, min 15 0C	CONCRETE TEMP
50 – 150 cm ,min 10 0C	
>150 cm, min 5 0C	

[illegible]





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