ZED CONSULTS
INNOVATING SOLUTIONS

PROFILE

INNOVATE | CUSTOMIZE | DESIGN | MANAGE | CONTROL

CONTENTS

About ZED Consults

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ABOUT US

INTRDUCTION

ZED is engineering consultancy firm in the areas of Integrated Infrastructure, Water and Environment. The office has a strong presence in the Middle East and North Africa (MENA) region.

ZED consults is established by Mr. Muhammad El-Zanatti , Ex-deputy of Housing Ministry in 2019 in Giza-Egypt as a private bureau for environmental services and infrastructure projects.

ZED serves the national developments in Egypt, Middle East and African countries by providing Professional Engineering Consulting Services for; Urban & Regional Planning, Integrated Infrastructure, Water Supplies & Sewerage including the water and wastewater treatment facilities, beside the industrial wastewater plants that serve a wide sector of industries.

Vision

Design is the keyword and clew for every tremendous output and the origin for every step forward, we design today for better future.

Through our professional expertise in, engineering and management, we guide and support our clients so that we can make a difference and innovation in each project to serve the client desires and to create better solution with outstanding quality and performance. We work tirelessly to ensure that our projects are mutually successful for all, and endeavor to forge relationships that stand the test of time. Our contribution to the built environment reaches far beyond the equipment and concrete; our work allows our clients to innovatively reach their desired results safer, faster, cleaner and more economically than ever before.

Mission

Innovating solutions...

Not a slogan it's a principle has been built thought out years of experiences and effort to build the optimum and perfect solutions for each client with his point of vision, all our failures are converted to amazing innovative solutions to overcome any obstacle that can face the progress of project completion and that is our mission

ABOUT US



INNOVATING SOLUTIONS



OUR TEAM

All facets of ZED turn-key solutions are processed in-house. Therefore, staff are employed across all areas of sales, administration, finance, engineering, design, drafting, project management, automation, .installation supervision and management roles

PARTNERSHIP APPROACH

THE MANUFACTURE OF BESPOKE SOLUTIONS REQUIRES EXTENSIVE REACH, DEVELOPMENT, INNOVATION AND ABOVE ALL; EXCELLENT COMMUNICATION

INDUSTRY APPLICATIONS

- Urban Water
- Grey Water
- Mining
- Water Treatment
- Water Distribution
- Desalination
- Energy & Resources
- Irrigation Delivery
- Produced Water
- Storm water Control
- Recycled Water Sewage
- Transfer Systems

SERVICES





ASSESSMENT & STUDIES

- Feasibility Studies
- Risk Assessment
- Environmental Impact Assessment
- Value Engineering
- Hydrological Studies for wells
- Hydraulic Analysis

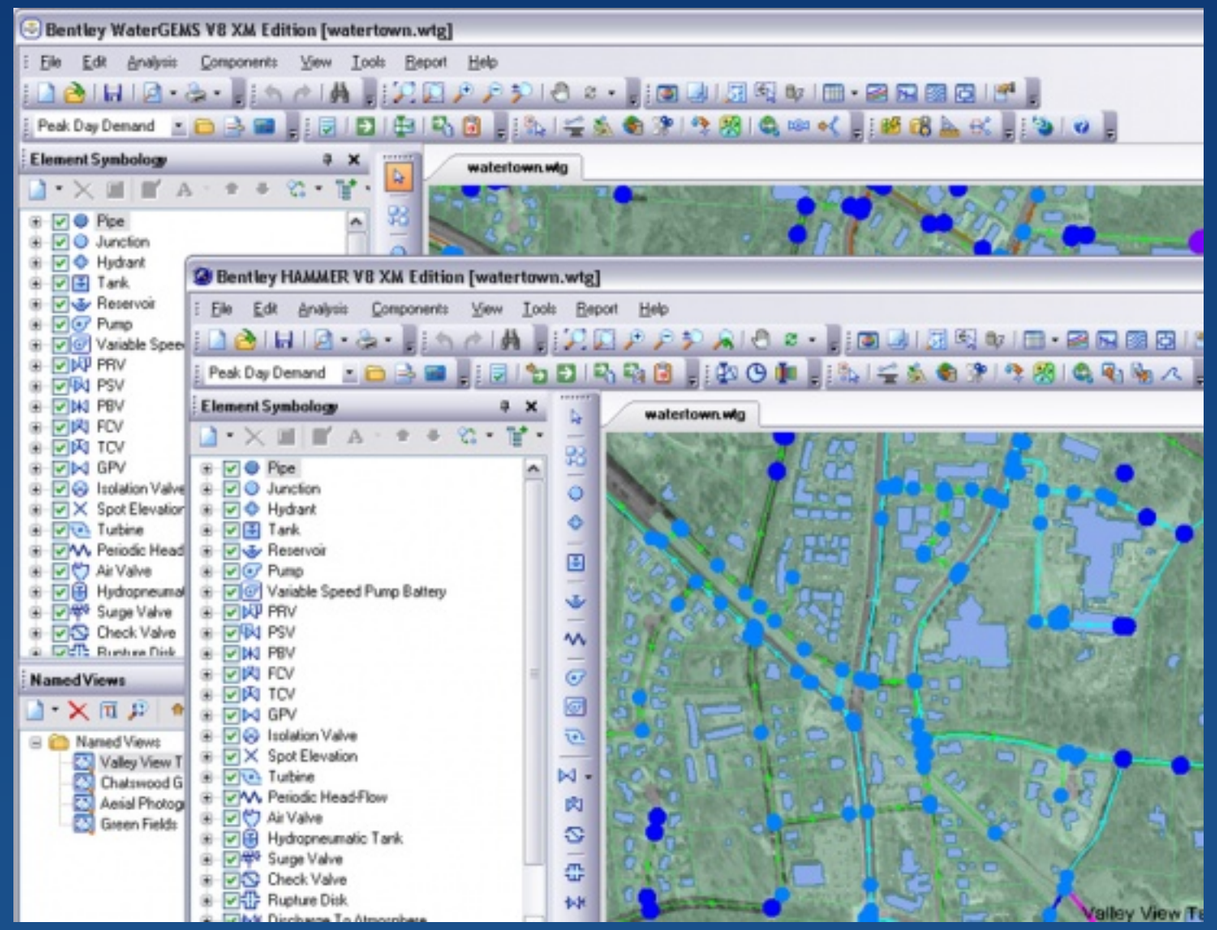
ZED SERVICES

PUMPING STATIONS

- Water intake
- Booster pumping stations
- Sewage pumping stations
- Irrigation pumping station
- Water Hammer Protection System

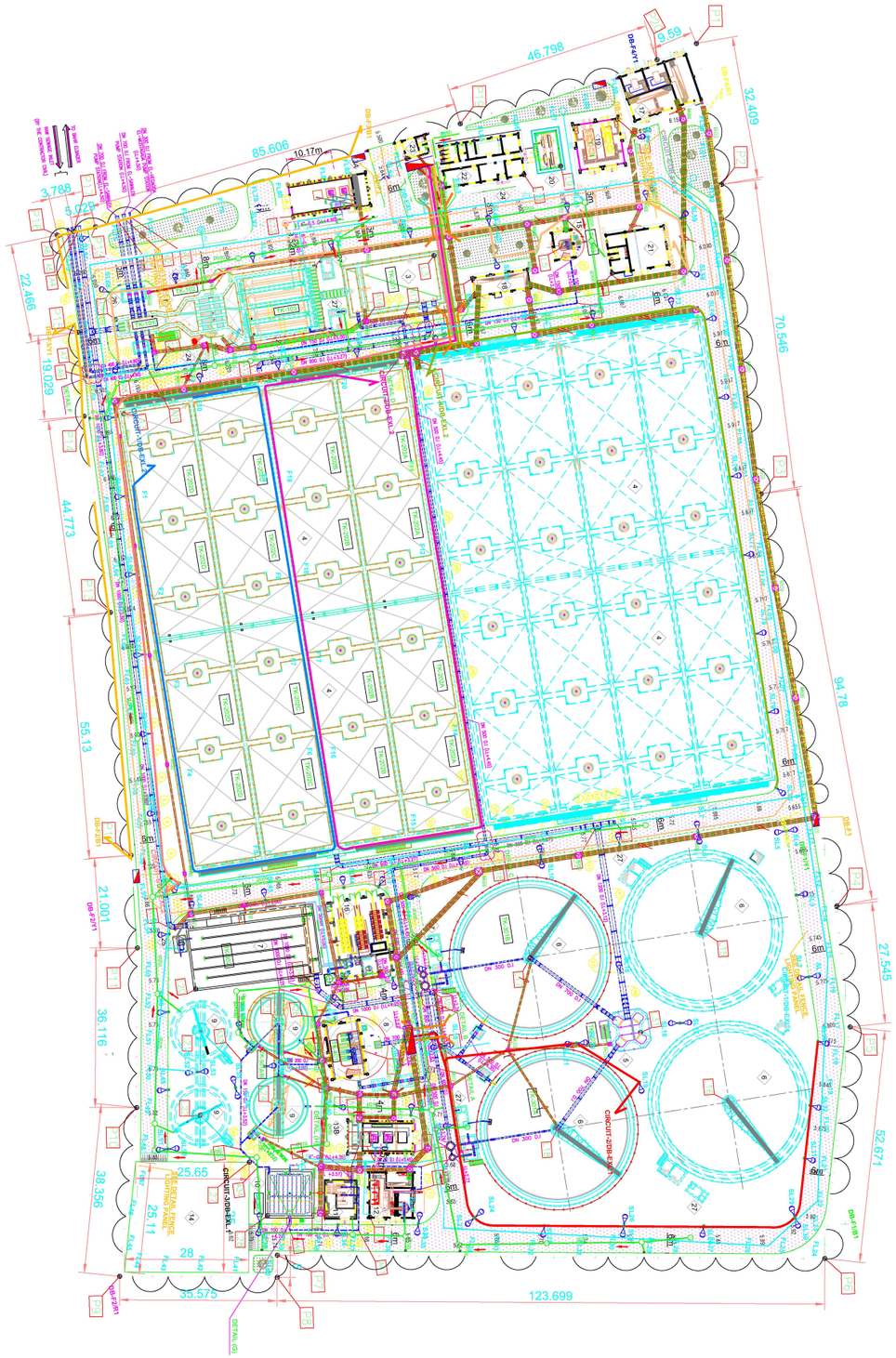
NETWORKS

- Water Networks
- Sewage Networks
- Irrigation Networks
- Drainage Networks



SERVICES

SERVICES



WATER TREATMENT PLANTS

Water purification plants

- Conventional
- Lamella settler
- Pulsator
- Super Pulsator
- Direct filtration - Continous Filtration

Municipal Wastewater treatment plants

- Conventional
- Extended Aeration
- Sequential Batch Reactor SBR
- Moving Bed Bio-Reactor MBBR
- Membrane Bio-Reactor MBR

Industrial wastewater treatment plants

- Food & Beverage
- Diary
- Sugar Industry
- Oil Separation
- Metals Separation

Desalination plants

- Sea water Revers Osmosis
- Brackish Water Revers Osmosis

Iron & manganese removal plants

Assessment & Rehabilitation reports for plants

Oil process water separation plant

SERVICES

DESIGN

DETAILED SERVICES

SERVICES

Process Design & Engineering
Process design and associated calculations and drawings, including but not limited to process calculations, Process & Instrumentation Diagrams (P&IDs), process flow diagrams, and mass balance

Hydraulic Design & Engineering
Hydraulic design and associated calculations and drawings, including hydraulic calculations, hydraulic profiles, pipe sizing, and system head-loss calculations

Mechanical Design & Engineering
Mechanical design and associated calculations and drawings, including but not limited to equipment sizing and selection, pipe sizing, valve sizing, equipment data sheets, layouts, and mechanical drawings

Detailed Engineering & Shop Drawings
Detailed engineering and preparation of shop drawings, including but not limited to detailed layouts, fabrication drawings, installation drawings, construction details, . coordination drawings, and as-built documentation

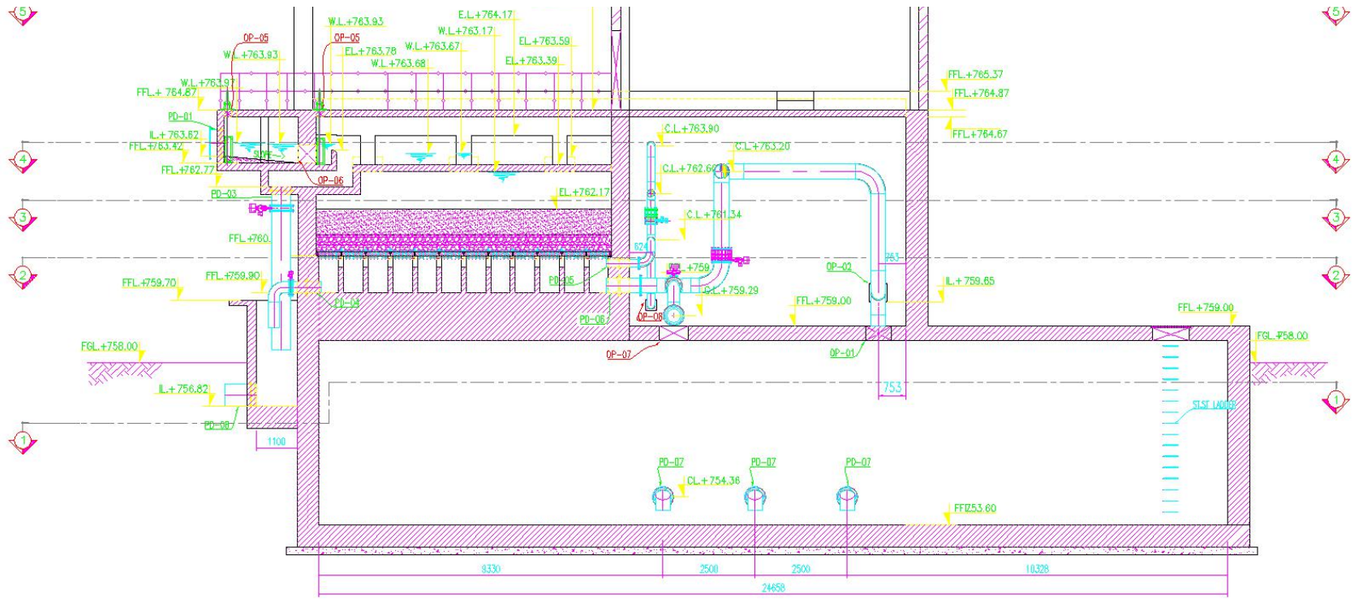
Plant Layout & 3D Coordination
Plant layout development and 3D coordination, including equipment arrangement, piping layouts, access and maintenance requirements, multidisciplinary coordination, . clash detection, and overall plant arrangement optimization

Civil & Structural Design & Engineering
Civil and structural design and associated calculations and drawings, including but not limited to site development, grading, foundations, equipment foundations, concrete structures, structural steel works, buildings, roads, drainage systems, and all related civil and structural drawings

Water Hammer Protection & Transient Analysis
Water hammer protection and transient analysis, including but not limited to transient hydraulic analysis, surge pressure assessment, identification of critical operating conditions, surge protection system design, selection and sizing of surge protection equipment, and associated calculations, drawings, and control requirements

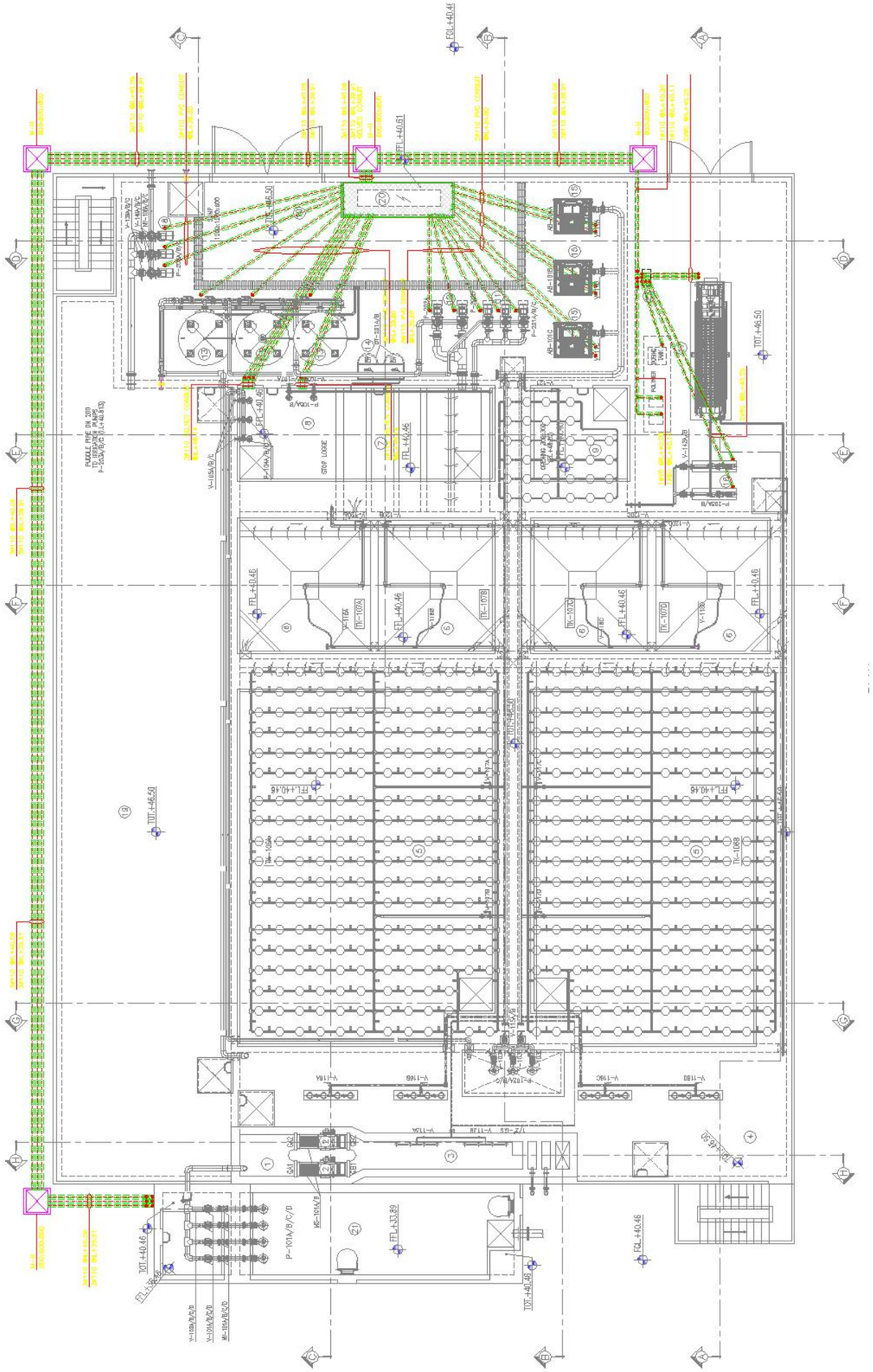
MEP Design & Engineering
MEP design and associated calculations and drawings, including but not limited to HVAC systems, plumbing, firefighting systems, ventilation, water supply and drainage systems, and all associated MEP layouts and details





SECTION (E-E)
SCALE 1:50

SERVICES



DESIGN

DETAILED SERVICES

Pipeline & Network Design & Engineering

Pipeline and network design and associated calculations and drawings, including but not limited to pipeline sizing, hydraulic calculations, alignment and profile drawings, pipe network modeling, valve and appurtenance selection, chambers, crossings, and related pipeline and network layouts

Electrical Design & Engineering

Electrical design and associated calculations and drawings, including but not limited to electrical load calculations, power distribution, single-line diagrams (SLDs), cable sizing, voltage drop calculations, equipment schedules, lighting, earthing and lightning protection, and electrical layouts

Instrumentation, Control & Automation

Instrumentation and control design and associated calculations and drawings, including but not limited to instrument selection and sizing, instrument data sheets, I/O lists, control philosophy, control panel design, PLC/SCADA systems, control schematics, . loop diagrams, and instrumentation layouts

SCADA & Telemetry Systems

SCADA and telemetry system design and engineering, including but not limited to system architecture, PLC/RTU configuration requirements, I/O definition, communication networks, control panels, remote monitoring, data acquisition, and associated control and instrumentation drawings

Rehabilitation & Upgrading Studies

Assessment and engineering studies for the rehabilitation, upgrading, and expansion of existing water and wastewater treatment plants, including capacity assessment, process evaluation, equipment condition assessment, system optimization, and recommendations for improvement

Site Investigation & Existing Facilities Assessment

Site investigation and assessment of existing facilities, including but not limited to site surveys, existing equipment and systems assessment, condition assessment, verification of existing drawings and data, identification of constraints, and recommendations for required modifications or upgrades

Technical Specifications & Design Criteria

Preparation and development of technical specifications and design criteria, including design basis, technical requirements, equipment specifications, material specifications, applicable standards and codes, and engineering criteria for water and .wastewater projects

SERVICES

Project management

-ZED can supervise and monitors during the installation and erection phase to optimize and enhance the site condition to achieve customer satisfaction and to insure that all procedures are going according to the standard level and to minimize any waste of material of manpower and to keep the execution schedule meet the due dates for all stages according to the project time frame with the highest quality.

-Zed can prepare daily /weekly progress reports

-Technical reports

-Punch lists and scope invoices









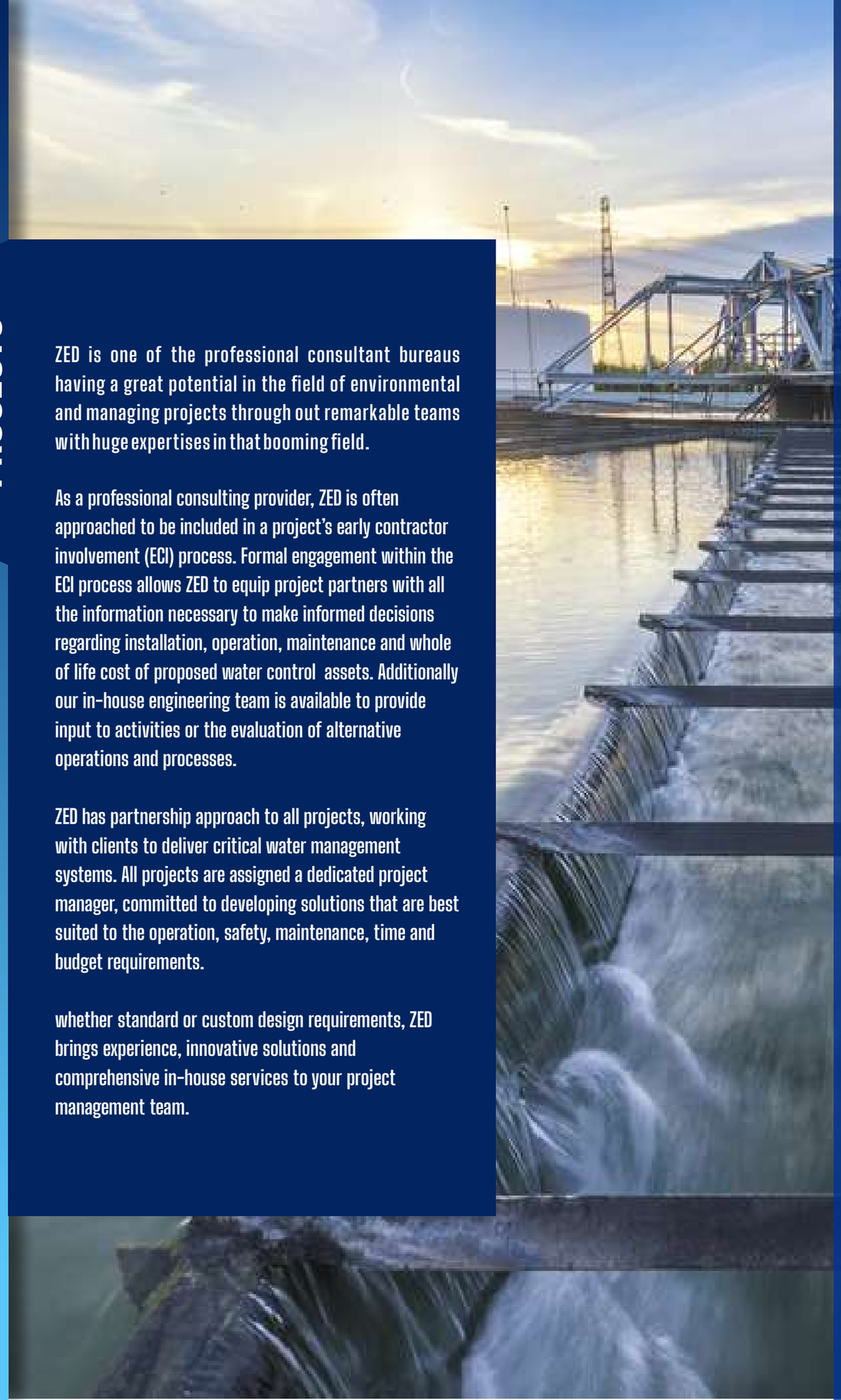
PROJECTS

ZED is one of the professional consultant bureaus having a great potential in the field of environmental and managing projects through out remarkable teams with huge expertises in that booming field.

As a professional consulting provider, ZED is often approached to be included in a project's early contractor involvement (ECI) process. Formal engagement within the ECI process allows ZED to equip project partners with all the information necessary to make informed decisions regarding installation, operation, maintenance and whole of life cost of proposed water control assets. Additionally our in-house engineering team is available to provide input to activities or the evaluation of alternative operations and processes.

ZED has partnership approach to all projects, working with clients to deliver critical water management systems. All projects are assigned a dedicated project manager, committed to developing solutions that are best suited to the operation, safety, maintenance, time and budget requirements.

whether standard or custom design requirements, ZED brings experience, innovative solutions and comprehensive in-house services to your project management team.



Abu Za'abal Water Treatment Plant

OVER VIEW

Capacity	:	12,000m3/day
Type	:	Surface water
Location	:	Abu Za'abal-Egypt
Client:	:	18th Military Factory

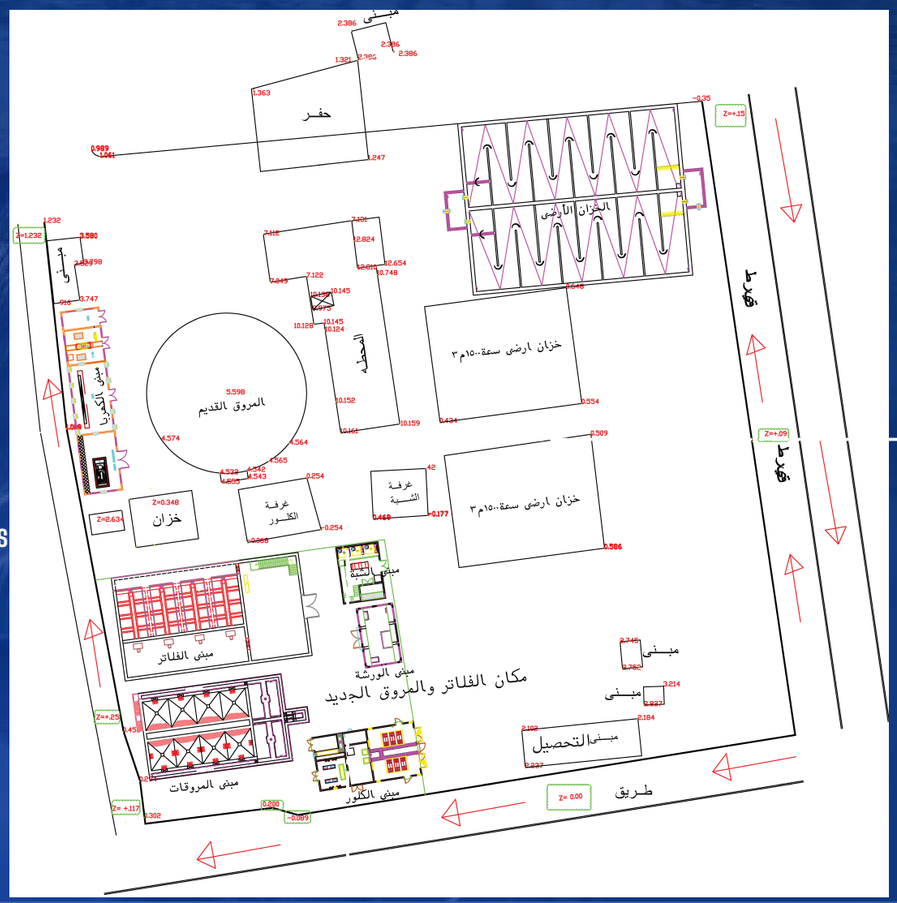
DESCRIPTION

The plant is designed to treat the surface water from Ismailia canal, the plant consists of Raw water pumping station, advanced Tube Settlers, Rapid Gravity Filters, Treated water pumping station, and Underground storage tank

The plant was design in a compact module to fit minimum footprint taking in considerations the ease of accessibility and equipment and chemical handling as there were existing buildings in the site

SCOPE OF WORK

- Process design
- Hydraulic Design
- Mechanical design
- Electrical design
- I&C design
- Preparation of Tender Specifications
- Preparation of Tender Forms
- Bill Of Quantities



PROJECTS

Ram Allah Tertiary treatment plant

OVER VIEW

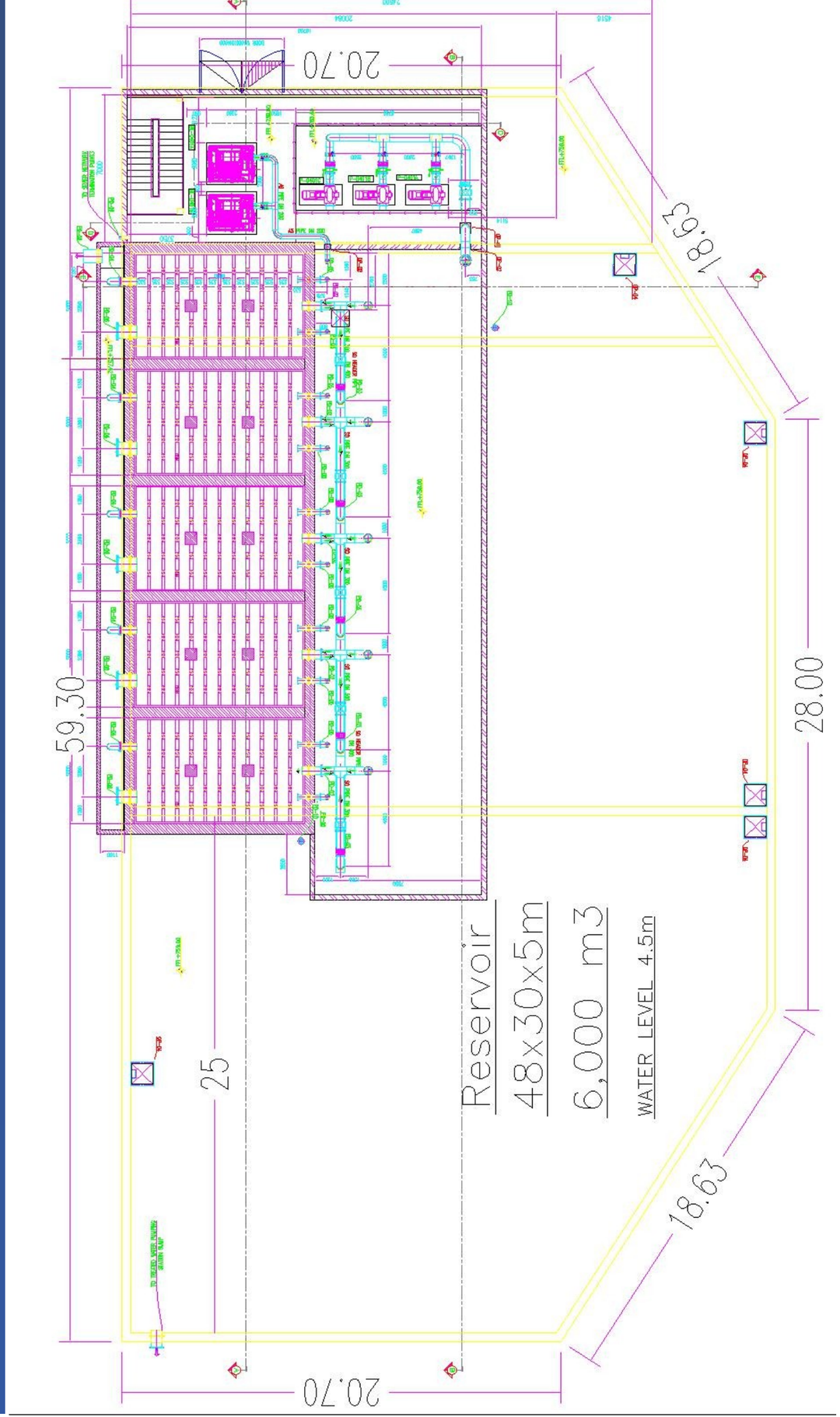
Capacity	:	22,500m3/day
Type	:	Rapid gravity filters Ram
Location	:	Allah-Palestine
Client:	:	APT Engineering

DESCRIPTION

As part of the upgrade of the existing wastewater treatment plant from secondary to tertiaryAs part of the upgrade of the existing wastewater treatment plant from secondary to tertiary treatment, ZED Consults carried out the design of a new tertiary filtration system using gravity sand filters. The proposed sand filtration system is designed to provide advanced removal of remaining suspended solids and fine particulate matter from the biologically treated effluent, thereby improving the final . effluent quality and ensuring compliance with the required discharge or reuse standards

A major design challenge was to develop and integrate the new filtration system with the existing 6,000 m³ treated-water storage tank, while maximizing the utilization of the existing facility. The system was designed to allow the tank to serve both as a treated-water storage reservoir and as the source for the filter backwashing system, while maintaining the required hydraulic conditions and . chlorine contact time for final disinfection

The scope included process design and sizing of the sand filters, hydraulic assessment, filtration rates, backwashing requirements, filter media selection, hydraulic integration with the existing tank and treatment process, and verification of the required chlorine contact time. ZED Consults also prepared the detailed shop drawings, including mechanical, hydraulic, piping, and associated ..installation drawings required for execution of the filtration system



PROJECTS



The Administrative capital Wastewater Chemical treatment

OVER VIEW

Capacity	:	1,000 m3/day
Type	:	Chemical treatment
Location	:	Administrative Capital-Egypt
Client:	:	New Egyptian Opera House

DESCRIPTION

The plant is designed to treat the municipal wastewater chemically not biologically as usual to avoid any odor and to be able to be built totally underground and covered, the plant was a great challenge as chemical treatment is not widely common in Egypt for municipal wastewater treatment.

The plant was design in a compact module to fit minimum footprint taking in considerations the ease of accessibility and equipment and chemical handling

SCOPE OF WORK

- Process design
- Mechanical design
- Electrical design
- Shop drawings
- Approvals
- Installation and startup supervision



PROJECTS



Fisha Al Kobra Iron and Manganese Removal

OVER VIEW

Capacity	:	5000 m3/day
Type	:	Iron and Manganese removal
Location	:	Monufia Governorate-Egypt
Partner	:	Masa for urban development-Aqua-Engineering Belgium
Client	:	Monufia Water and Wastewater company

DESCRIPTION

Plant was designed and executed to supply clean drinking water to Kamshoush village in Monufia governorate according to the Egyptian code for drinking water and WHO standards.

Plant consists of two wells, each equipped with borehole pump to supply the deceleration chamber, water then undergoes oxidation stage, precipitation, filtration stage and finally storage to be pumped to the public network.

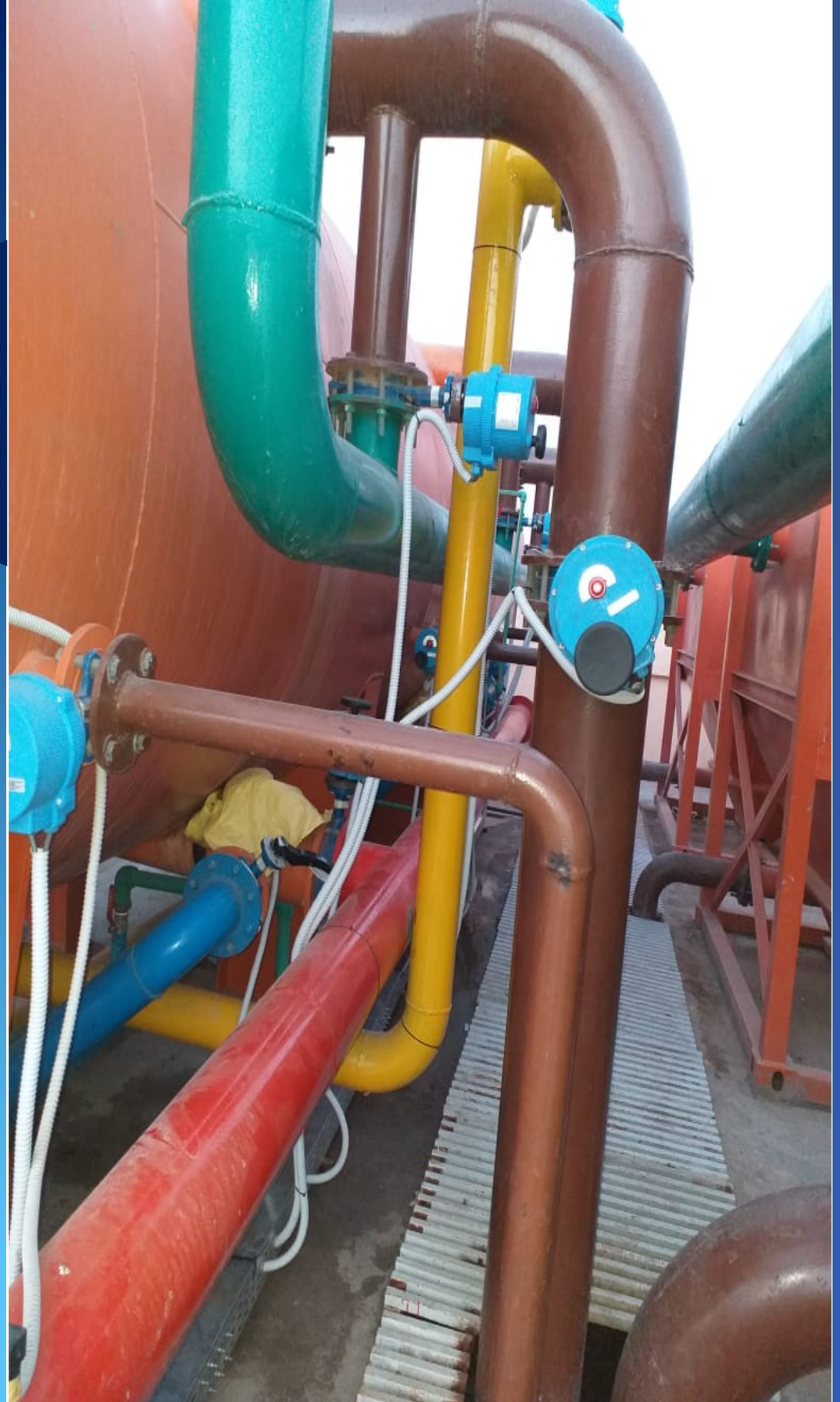
All plant tanks and equipment are prefabricated and skid mounted to reduce construction time and to meet client tight time frame.

SCOPE OF WORK

-Process design review and approval
-Hydraulic design (plants & wells)
-Installation, startup and commissioning supervision
-Project management
-Progress assessment and reports
-Final handing over to MWWC



PROJECTS



Kamshoush Iron and Manganese Removal

OVER VIEW

Capacity	:	5,000m3/day
Type	:	Iron and Manganese removal
Location	:	Monufia Governorate-Egypt
Partner	:	Masa for urban development-Aqua-Engineering
Client	:	Belgium Monufia Water and Wastewater company

DESCRIPTION

Plant was designed and executed to supply clean drinking water to Kamshoush village in Monufia governorate according to the Egyptian code for drinking water and WHO standards. Plant consists of two wells, each equipped with borehole pump to supply the deceleration chamber, water then undergoes oxidation stage, precipitation, . filtration stage and finally storage to be pumped to the public network
All plant tanks and equipment are prefabricated and skid mounted to reduce . construction time and to meet client tight time frame

SCOPE OF WORK

Design review and approval-
Installation, startup and commissioning-
supervision -Project management
Progress assessment and reports-
Final handing over to MWWC-



الجمهورية اليوم ٣ متابعات 3

جهود مبذولة وانجازات ملموسة فى مياه المنوفية

تحقيق: سحر الليثى

PROJECTS







Rehabilitation of Beni Mazar water Treatment Plant

OVER VIEW

Capacity	:	20,000 m3/day
Type	:	Water treatment plant
Location	:	Menia Governorate-Egypt
Partner	:	Masa for urban Development
Client	:	Menia Water and Wastewater company

DESCRIPTION

Existing plant is design with traditional process coagulation, flocculation, settling and filtration using rapid gravity sand filters and most of plant units need to be rehabilitate to be able to treat the full capacity 20,000 m3/day to serve Beni Mazar City.

Most of equipment required to be revamped specially the filters, all filter's media required to be replaced and all filter's nozzels and concrete slabs, also the raw and treated water pumping station.

The target was to rehabilitate the existing plant according to the rehabilitation report without any impact on the operation of the plant to keep it serving network and without cutting out the supplying of water to the city.

SCOPE OF WORK

-Existing plant assessment
-Detailed report for the equipment and all treatment units
-Rehabilitation report
-Rehabilitation method of statement



PROJECTS

As Salam West and El Mogahedeen I & M Removal

OVER VIEW

Capacity : m3/day 10,800
Type : Iron and Manganese removal
Location : New Valley Governorate-Egypt
Partner :Masa for urban Development-Aqua-Engineering
Client : Belgium Asyut and New Valley Water and Wastewater company

DESCRIPTION

Plant was designed and executed to supply clean drinking water to As-Salam west and El Mogahedeen villages in New Valley governorate according to the Egyptian code for drinking water and WHO standards

Plant consists of wells each equipped with borehole pump to supply the receiving chamber, water then undergoes oxidation stage, precipitation, filtration stage and finally storage to be pumped to the public network .

All plant tanks and equipment are prefabricated and skid mounted to reduce construction time and to meet client tight time frame .

SCOPE OF WORK

- Process design review and approval
- Hydraulic design (plants & wells(
Installation, startup and commissioning
- supervision-Project management
- Progress assessment and final reports handing over to ASCWW





PROJECTS

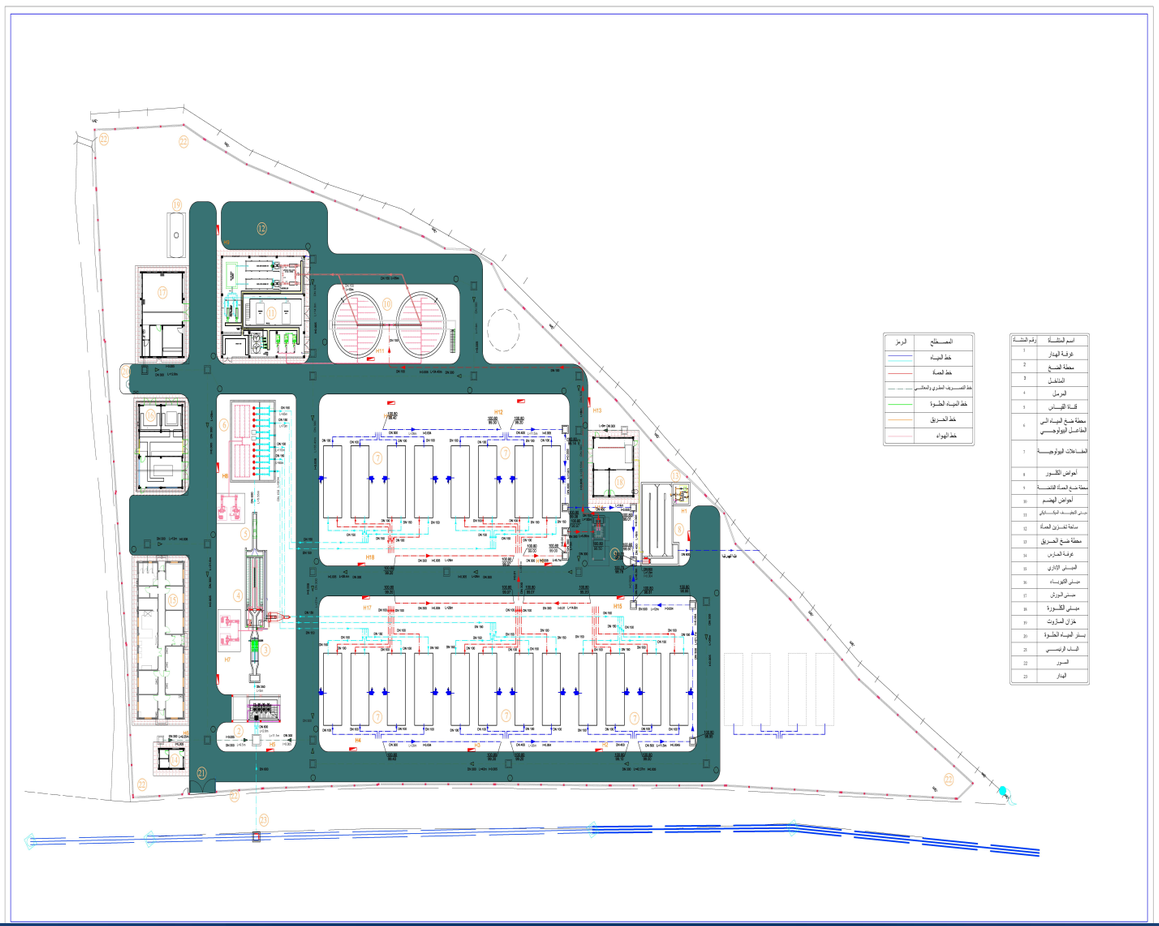
ZEBDEEN SEWAGE TREATMENT PLANT

OVER VIEW

Capacity	:	10,500m3/day
Type	:	Sewage Treatment Plant
Location	:	Rural Damascus-Meliha-Zabdeen-Syria
Partner	:	Global Contractors
Client	:	Ministry of Water Resources (MoWR) Directorate of wastewater

DESCRIPTION

The Plant is serving Zabadeen city to treat wastewater with SBR process type, the plant is consists of inlet works (screens, G&G removal chamber), raw water pumping station to feed the SBR reactors (Quantity : 20)then to the chlorine contact tank for disinfection process, the sludge out from SBR tanks are pumped to aerated sludge stabilization tanks to reduce the volume and stabilized the sludge before mechanical de-watering for further reduction of volume



SCOPE OF WORK

- Processdesign
- Hydraulicdesig nand Profile
- Installation,startupand commissioning manuals
- O&Mmanuals
- Workshopdrawings
- EquipmentLists
- ValvesList
- EquipmentDatasheetsreview and approval
- ChemicalsConsumption
- PowerConsumption



PROJECTS

Agiba Oil Separation Treatment Plant

OVER VIEW

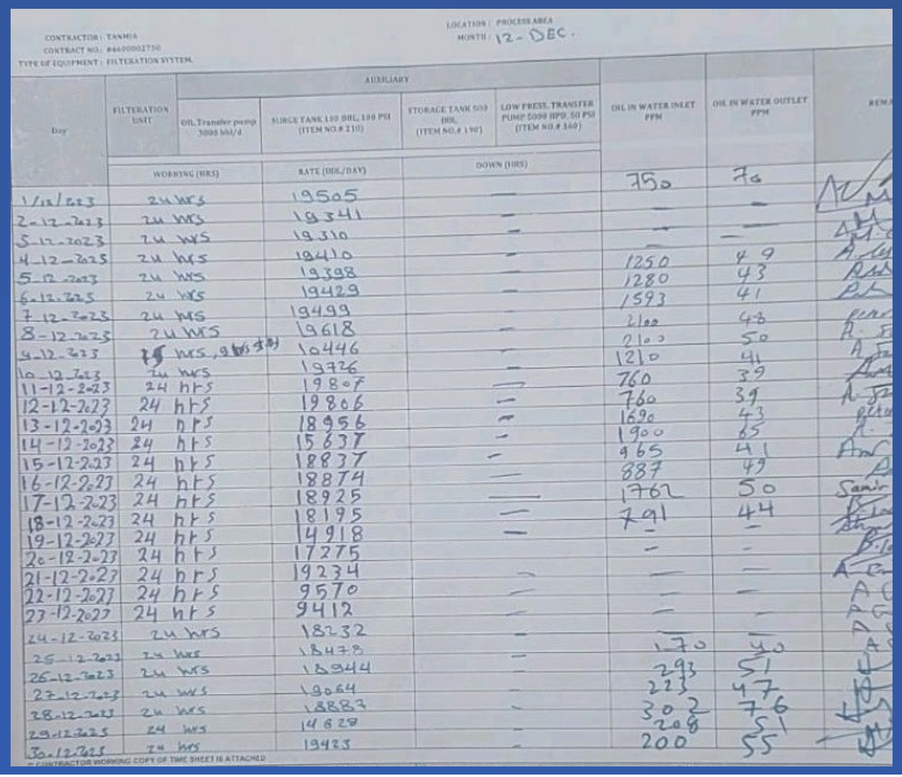
Capacity	:	10,000 BPD
Type	:	Oil separation
Location	:	West Desert-Egypt
Partner	:	WelServe for contracting
Client	:	AGIBA Petroleum company

DESCRIPTION

The client main challenging requirement was to reduce the oil concentration 70% without expose the flow to air according the safety procedure.
ZED designed closed system to reduce the 800 ppm oil to 40 ppm with efficient operation and monitory for all parameter to ensure the effluent water quality.

SCOPE OF WORK

-Process design
-Detailed drawings
-Fabrication drawings
-Installation and commissioning supervision



CONTRACTOR : TANMIA
CONTRACT NO.: #4600002750
TYPE OF EQUIPMENT : FILTERATION SYSTEM.
LOCATION : PROCESS AREA
MONTH : 12 - DEC.

Day	FILTERATION UNIT	AUXILIARY				OIL IN WATER INLET PPM	OIL IN WATER OUTLET PPM	REMARKS
		OIL Transfer pump 5000 bbl/d	SURGE TANK 180 BBL, 100 PSI (ITEM NO.# 210)	STORAGE TANK 500 BBL (ITEM NO.# 190)	LOW PRESS. TRANSFER PUMP 5000 BPD, 50 PSI (ITEM NO.# 360)			
	WORKING (HRS)	RATE (BBL/DAY)	DOWN (HRS)					
1/12/223	24 hrs	19505	—			750	70	
2-12-2023	24 hrs	19341	—			—	—	
3-12-2023	24 hrs	19310	—			—	—	
4-12-2023	24 hrs	18410	—			1250	49	
5-12-2023	24 hrs	19398	—			1280	43	
6-12-2023	24 hrs	19429	—			1593	41	
7-12-2023	24 hrs	19499	—			2100	48	
8-12-2023	24 hrs	19618	—			2103	50	
9-12-2023	15 hrs, 9 hrs	10446	—			1210	41	
10-12-2023	24 hrs	19726	—			760	39	
11-12-2023	24 hrs	19807	—			760	39	
12-12-2023	24 hrs	19806	—			1690	43	
13-12-2023	24 hrs	18956	—			1900	65	
14-12-2023	24 hrs	15637	—			965	41	
15-12-2023	24 hrs	18837	—			887	49	
16-12-2023	24 hrs	18874	—			1762	50	
17-12-2023	24 hrs	18925	—			791	44	
18-12-2023	24 hrs	18195	—			—	—	
19-12-2023	24 hrs	14918	—			—	—	
20-12-2023	24 hrs	17275	—			—	—	
21-12-2023	24 hrs	19234	—			—	—	
22-12-2023	24 hrs	9570	—			—	—	
23-12-2023	24 hrs	9412	—			—	—	
24-12-2023	24 hrs	18232	—			170	40	
25-12-2023	24 hrs	18478	—			293	51	
26-12-2023	24 hrs	18944	—			223	47	
27-12-2023	24 hrs	19064	—			302	76	
28-12-2023	24 hrs	18883	—			208	51	
29-12-2023	24 hrs	14829	—			200	55	
30-12-2023	24 hrs	19423	—					

* CONTRACTOR WORKING COPY OF TIME SHEET IS ATTACHED



PROJECTS

Sodium Silicate/Aluminate factory upgrade-High Dam

OVER VIEW

Type : Production lines upgrade (Silicate and Aluminate) lines
Location : Aswan-Egypt
Partner : ERACONIX
Client : Helwan Diesel Engines Co.-Military Production National Organization

DESCRIPTION

This project is a challenging one, as the client requirements was extremely hard, ZED has studied the process for each part, the project was consists of

. SodiumSilicateProduction line A

. SodiumAluminateProduction line B

WaterTreatmentPlant RO to reduce the TDS in city water for using in Boilers C.

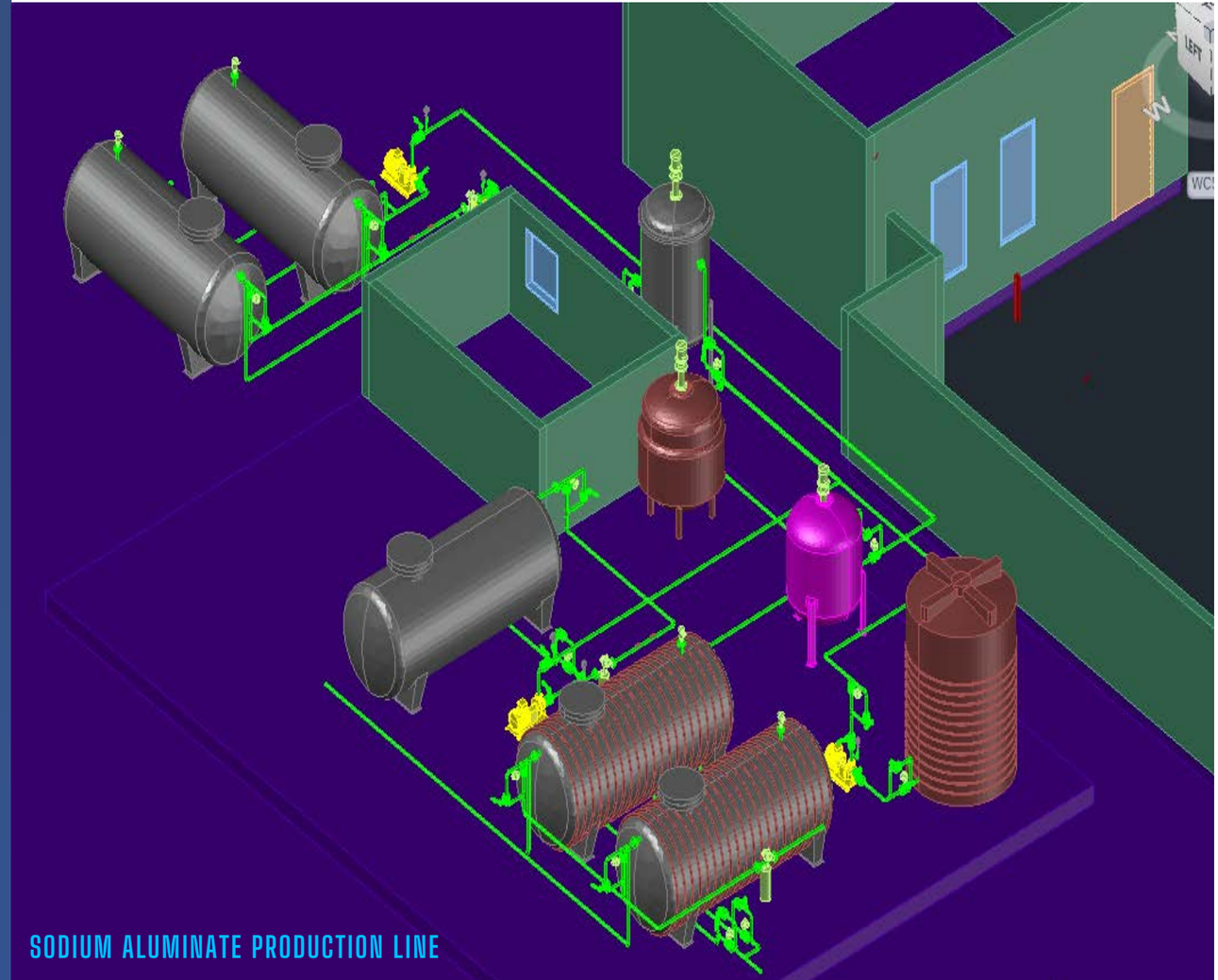
.BoilersZone D

. CoolingZone E

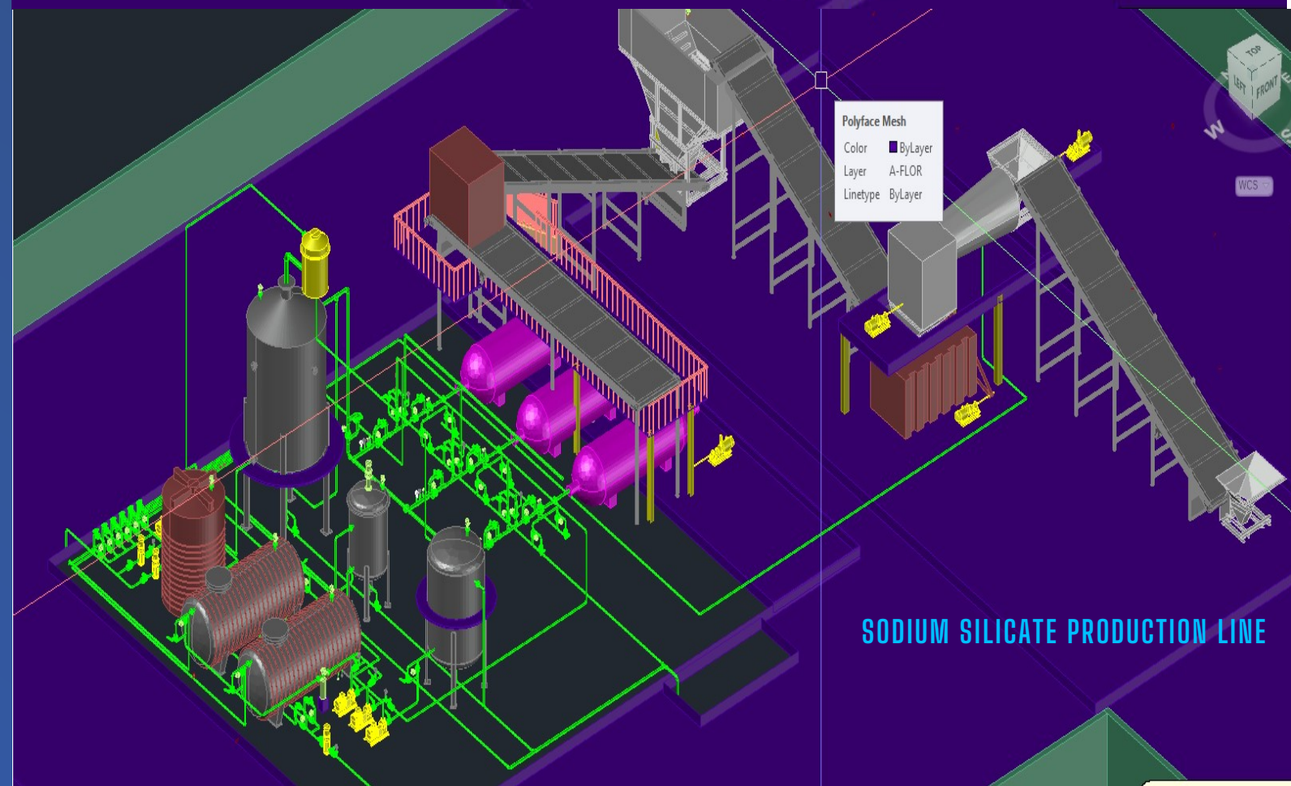
ZED has conducted all hydraulic calculations and studies for all new lines including valves, control system, SCADA system, Instrumentations that guarantee the process to be run smooth and fully automated

SCOPE OF WORK

ProcessdesignReview for Production lines -
(Detailed Design and workshop drawings for Water treatment Plant (RO 2400 m3/day-
3D Layout for all Zones-
Controlsystemintegration and design and SCADA system for all zones -
InstallationSupervision -

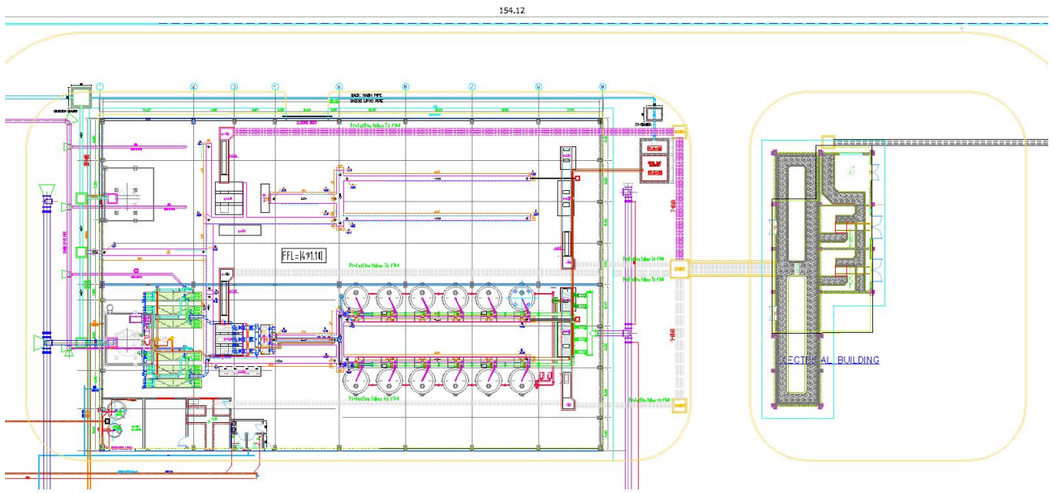


SODIUM ALUMINATE PRODUCTION LINE



SODIUM SILICATE PRODUCTION LINE

PROJECTS



REVERSE OSMOSIS PLANT



WELLS & NETWORS

Million Feed Design and Build Project

OVER VIEW

Type	:	Consultant Services and Review
Location	:	Makkah-Saudia Arabia JACOBS-
Partner	:	ERACONIX
Client	:	MOWAH-Saudia Arabia

DESCRIPTION

The Project is included in Makkah City Urgent Projects, it divided into four sectios as follow

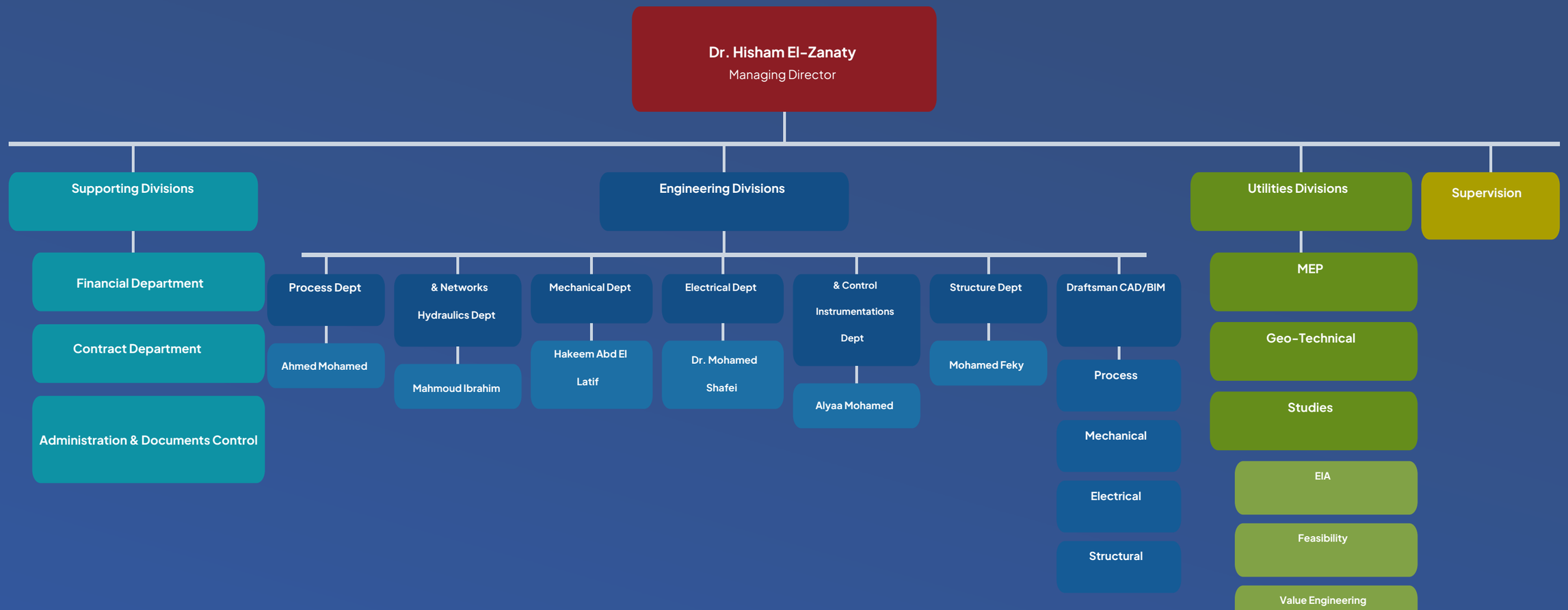
- Feed Water Wells
- Feed Water Networks
- Reverse Osmosis Plant
- Water Hammer protection System

The project aims to upgrade the existing water supply system, including the feed-water networks, the existing RO desalination plant, and the water hammer protection system

ZED Consults conducted a comprehensive design study covering all major project components, including

Assessment of the existing wells and hydrogeological status of the production wells serving the project zone
Assessment and hydraulic study of the existing feed-water networks
Detailed design of the third phase of the RO desalination plant
Hydraulic transient analysis and design of the water hammer protection system
Preparation of the required design reports and engineering recommendations for the overall system upgrade

Organization Chart



Process Deptartment

Ahmed Mohamed

Lead process engineering and plant design workflows

Electrical Deptartment

Dr. Mohamed Shafei

Power generation, substations, and electrical distribution

Networks & Hydraulics Department

Mahmoud Ibrahim
Hydraulic modeling, pipeline networks, Water hammer protection system and fluid distribution

Control & Instrumentation Department

Alyaa Mohamed

SCADA, PLC automation, and industrial control systems

Mechanical Deptartment

Hakeem Abd El Latif
Electrmechanical equipment, piping, Valves, Blowers, pumps …etc

Structure Deptartment

Mohamed Feky

Structural analysis, concrete & steel frameworks design

Supporting Divisions

- Financial Department
- Contract Department Admin
- & Document Control

Utilities Divisions

- **MEP Engineering**
- **Geo-Technical Studies**
- **Specialized Studies**
  - EnvironmentalImpact
  - FeasibilityStudies
  - ValueEngineering

Supervision Division

Independent site supervision and quality assurance management ensuring compliance with international engineering standards

PARTNERS

شركة مياه الشرب والصرف الصحي بالغربية

شركة مياه الشرب والصرف الصحي بالمنيا

الشركة القابضة لمياه الشرب والصرف الصحي

SYSTEM TECHNIQUE
WATER MANAGEMENT

MASA

Ascent Projects
Engineers & Contractors

SAWA GROUP

شركة مياه الشرب والصرف الصحي بأسيوط والوادي الجديد

شركة مياه الشرب والصرف الصحي بالمنوفية

شركة مياه الشرب والصرف الصحي بالشرقية

FLOW

شركة موه
MOWAH CO.

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