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**PALAYESH GOSTAR
ENGINEERING CO.**
EPC CONTRACTOR
CLEANROOM - HVAC - ENERGY

HEAD OFFICE & LAB. : NO.58 , 8TH – 2 ALLEY , EAST SALEK ST., ZAFARANIYEH, TABRIZ, IRAN

TEL/FAX: (+98 41) 33314403–36661771- 33271983

TEHRAN OFFICE: NO.12 , 6 FLOOR, BUILDING NO.62, 16 AZAR ST., KESHAVARZ BLVD., TEHRAN , IRAN

TEL/FAX: (+98 21) 88751255–88751483

WHATSAPP : +989386950871

Web : www.palayeshgostar.com E-mail : info@palayeshgostar.com



Palayesh Gostar Abnous Engineering Co. Ltd. is an EPC Contractor Company, established in 2010 specifically offering wide range of engineering and construction services to different process industries like Oil & Gas, Power Plant, Pharmaceutical plants , Sugar, Paper & Pulp, Edible Oil, Food Processing & other Process Industries. Our services include Engineering solutions related to Process, Piping, Mechanical, Electrical & Instrumentation , Structural Engineering.



Our Values

We add value by taking the initiative, being creative, always breaking new ground, and leading the way for a better future. For us, customer focus means having a close relationship with our customers, speaking their language, offering support in person and always looking for solutions. As a strategic partner, we support our customers and suppliers with our expertise, technical knowledge, solutions and services. We help and contribute to the success and profitability of your company.

Certificates



ISO 9001:2008 Quality Management



ISO 10002:2004 Customer Satisfaction



ISO 18001:2007 Occupational Health and Safety Management Systems.



ISO 14001:2004 Environmental Management System.

Our team is composed of highly trained and experienced people, who help us achieve our goals in delivering an optimum and first class service to our clients.

We work closely with our clients from the initial concept and marketing strategy right through to find the best solution , then continue to support them and assist with marketing and ongoing maintenance.

Our focus is on the fundamentals. Concern for health, safety, security and environment (HSE) is essential for our activities. We see cost control and efficiency as key to successful project execution. At the same time, we know that quality and schedule have to be managed to achieve our ultimate goal: that every project is delivered predictably.





► ENGINEERING

Design & Engineering Services include Feasibility Studies ,Scope Definition, Pre project Surveys, Detailed Engineering, Process Simulation, System Integration, Finalizing General Technical Particulars (G.T.P) of various equipment required for the project, As built drawing & document preparation, Preparation of Electrical Protection Coordination, Scheduling of Bill of Quantities (B.O.Q)



► PROCUREMENT

Procurement Services include Quality Assurance, Delivery Scheduling, Logistics, Materials Management, Vendor base creation, Vendor selection and rating, Vendor Quality and Manufacturing Quality Assurance Plan, Purchasing, Sourcing, Warehousing .



► CONSTRUCTION

Construction Services include Resource Management, Field Mobilization, Project Programming, Monitoring with critical path method and achievement completion within the scheduled completion period, Project construction as per the field quality plan, keeping high standard of quality for every installation, Project safety, Testing and Commissioning, Plant Readiness, Systems Integration, Validation and Certification.



► PM Services

Our plant maintenance services include professional advice and planning, quality workmanship and the highest standards of safety. Maintaining your equipment and instituting regularly scheduled preventative maintenance can ensure equipment reliability and longevity. We can provide a superior plant maintenance plan and schedule that works for your unique needs.

We are constantly working to make our services as efficient and straightforward as possible.

By focusing on innovation and optimization, we continue to represent a link that adds value in the logistics chain. Further more, we use our various service concepts and business solutions to ensure that you can give your own work your full attention. As your partner, we want to make a direct contribution to the efficiency and profitability of your company, because if you are successful, we are successful as well. It's that simple. There is no substitute for good old hard work.

The most intelligent men have not achieved their full potential or failed because they always looked for the shortcut to success. In order to succeed in life, we have to give our sweat and blood to the task and we should never look at any work as too low to be done by us.





Water Treatment Plants and Chemicals

Water treatment system and conditioning services for boilers and cooling towers and etc.



Mechanical and HVAC

Providing EPC services for electrical , mechanical and HVAC system



Cleanroom and Aseptic

Providing EPC services for industrial and pharmaceutical projects.

Water Treatment and Chemicals

PGA Engineering Co., Ltd. focuses on water treatment and chemicals for more than 10 years, and we are driving innovations to make our chemicals better applied to circulating water system, boiler and heating water system in fields such as steel & iron, paper making, petroleum, printing and dyeing, power plant, medical industries and etc.

Our Chemicals Category Includes: Scale Inhibitors, Corrosion Inhibitors, Chelating Agents, Polymers and Dispersants, Biocide and Algicide, Oxygen Scavenger, RO Membrane Chemicals and other Cleaning Agents, which cover wide ranges from single to complex agents.

Our aim:

water Conservation, Energy Conservation, Air Quality Improvement, Waste Reduction





Industrial wastewater treatment

Industrial wastewater treatment covers the mechanisms and processes used to treat wastewater that is produced as a by-product of industrial or commercial activities. After treatment, the treated industrial wastewater (or effluent) may be reused or released to a sanitary sewer or to a surface water in the environment. Most industries produce some wastewater although recent trends in the developed world have been to minimize such production or recycle such wastewater within the production process. However, many industries remain dependent on processes that produce wastewaters.



Boiler water treatment

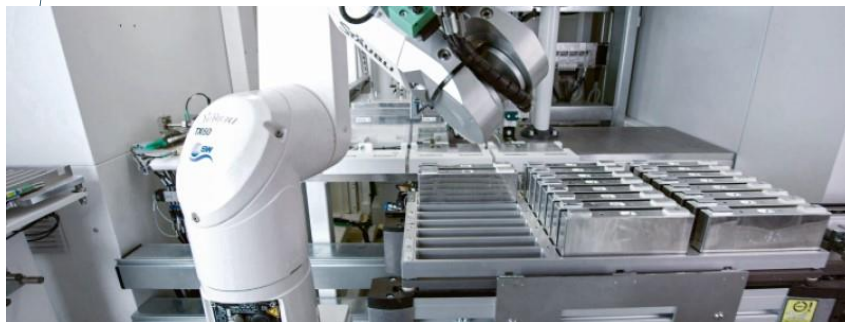
Boiler water treatment is a type of industrial water treatment focused on removal or chemical modification of substances potentially damaging to the boiler. Varying types of treatment are used at different locations to avoid scale, corrosion, or foaming. External treatment of raw water supplies intended for use within a boiler is focused on removal of impurities before they reach the boiler. Internal treatment within the boiler is focused on limiting the tendency of water to dissolve the boiler, and maintaining impurities in forms least likely to cause trouble before they can be removed from the boiler in boiler blowdown.



Cooling water treatment

Besides treating the circulating cooling water in large industrial cooling tower systems to minimize scaling and fouling, the water should be filtered to remove particulates, and also be dosed with biocides and algaecides to prevent growths that could interfere with the continuous flow of the water. Under certain conditions, a biofilm of microorganisms such as bacteria, fungi and algae can grow very rapidly in the cooling water, and can reduce the heat transfer efficiency of the cooling tower. Biofilm can be reduced or prevented by using chlorine or other chemicals.

Water Treatment Services and Products



Physical Treatment

Electronics Industry

SEMI standards and to reach the United States National Electronics level four water standards (most advanced)

- * The electronics industry with highly pure water equipment
- * Battery of industrial production of water equipment



Food, Beverage, Drinking water production line

Water pure stable sterile indicators meet the enterprise or country-related criteria

- * Drinking mineral water equipment
- * Drinking pure water equipment
- * Drinking water Systems Engineering



Cosmetics Industry

The rapider development of cosmetic industry ,the more demands on the high quality water, hardening will improve the quality of products are your best choice

- * Deionized water equipment

MECHANICAL, ELECTRICAL & HVAC SERVICES

Our capable staff will provide your company with the technical expertise needed to safely and cost-effectively installation, commissioning, upgrade, operate, maintain and troubleshoot your company's mechanical systems. Our plant maintenance services include professional advice and planning, quality workmanship and the highest standards of safety. Maintaining your equipment and instituting regularly scheduled preventative maintenance can ensure equipment reliability and longevity. We can provide a superior plant maintenance plan and schedule that works for your unique needs.



Our Services Includes:

Utilizing a core process, we can provide highly flexible turnkey services that enable seamless coordination of your businesses activities. If you're looking for equipment installation, our skilled team of professionals can assist you. They're capable of handling even the most complicated installation. Our highly experienced welders, pipefitters, riggers and project managers insure your project will be executed to exacting standards and specifications. As a nationally recognized leader in terminal construction, modifications and additions, PGA Industrial Services will provide a safe, quality conscientious work crew to address all of your project needs.



Electrical Services

Providing system design and installation to meet all of your Electrical Service needs.(MCC & PLC Panels)

From computerized systems to automation, PGA ELC. Division can provide installation, maintenance and support for the electrical equipment at the core of your manufacturing process.



HVAC Services

As a full-service HVAC contractor, we can handle all of your heating and cooling needs, from new construction and installation to renovation and repair. PGA also has a fully automated fabrication facility to build your ductwork, plenums and drain pans for new construction, renovation, replacement or repair.



Boiler, Piping and Structure

PGA install boilers (fire tube , water tube, HRSG) , structural steel, piping, rotating and static mechanical equipment, tanks and vessels. also can integrate the installation of all , ensuring a complete end to end solution, that is both seamless and with minimal interface risk.

ELC , MEC and HVAC Services

We're a full-service contractor specializing in industrial projects.

We have the vision and experience to professionally install new electrical service, upgrade your current system or keep you running well into the future with regular maintenance checks utilizing a customized designed Electrical Preventative Maintenance (EPM) program for your facility.



Our HVAC service and maintenance division provides scheduled maintenance, repair, retrofits, upgrades, system revisions and 24/7 emergency services, all handled by competent staff and trained technicians. Our service group is a strong and talented team capable of servicing the most complex HVAC systems in any type of area.

HVAC Services Include:

Preventative Maintenance Contracts ; Boilers ; Chillers ; Refrigeration ; Roof Top Units; Split Systems (Furnace & Condensing Unit) ; Computer Room Air Conditioning Equipment ; Evaporative Coolers ; Radiant Tube Heaters ; Variable Refrigerant Flow Systems ; Unit Heaters ; Electric Heaters ; Pumps; Cooling Towers ; Ventilation Equipment ; Energy Management and Controls ; Sheet Metal Fabrication.

Aseptic and Cleanroom System

Our team is composed of highly trained and experienced people, who help us achieve our goals in delivering an optimum and first class service to our clients. We work closely with our clients from the initial concept and marketing strategy right through to find the best solution, then continue to support and assist them with marketing and ongoing maintenance.

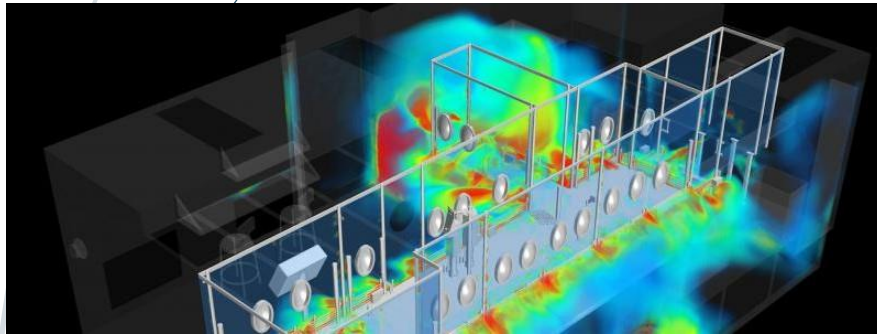


It is a construction enterprise specialized in the design and installation of various classes of clean room. We have leading advantage on clean-room design and engineering, and rich experience on international project management. We provide professional clean room design & construction for applications in electronics, pharmaceutical (GMP), agribusiness, food, automotive, Biological industries. We are also capable for mechanical and electrical installation works for manufacturing plants, hotel and apartments (including processing pipe, electricity, and intellectual control system etc). We have strong capabilities for clean room design and construction from class 100 to class 300,000, mechanical and electrical installation, intellectual control system set up, special process piping, especially large facility construction. We have a strong design and construction team, and won a lot of customer recognitions for meeting the tight schedule, ambitious cost target and strict site safety guidelines.



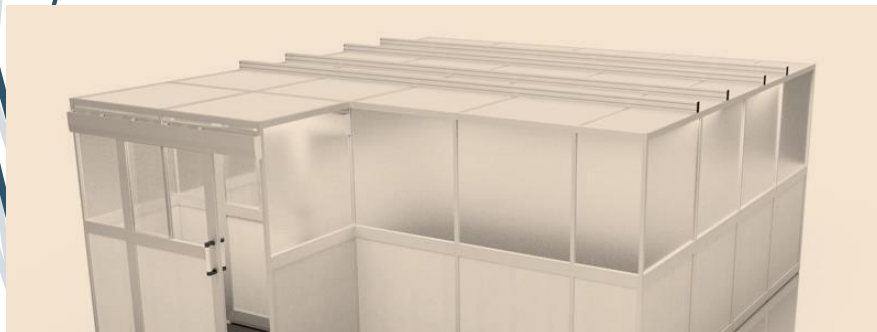
Cleanroom Conceptual Design

In Clean Rooms, to begin a project for the future, with the assurance that the end is going to be a suitable one, it is necessary to start from a Conceptual Design in which a developing process, its requirements and needs are defined.



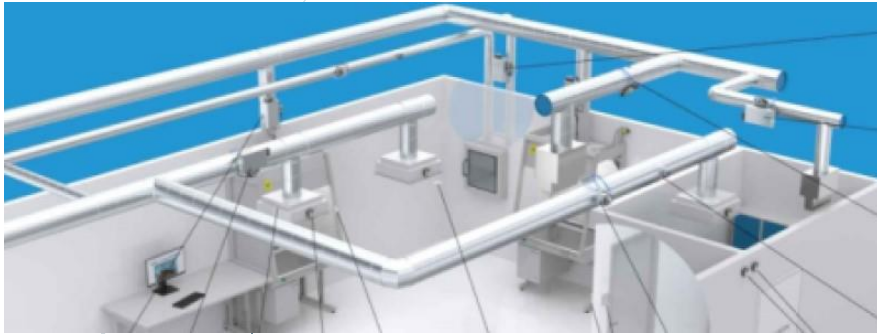
Cleanroom Basic and Detail Design

The Basic and Detailed engineering is done from the Conceptual Design, defining all the constructive aspects of the project, its facilities and equipment.



Cleanroom Structure

Covering sandwich ceiling panels and wall panels, cleanroom doors and windows, coving, corner piece and connection accessories, etc.



HVAC System

Covering AHUs, chillers, water piping, air ducting, piping insulation, air and water valves, air filters, air inlets and outlets etc.



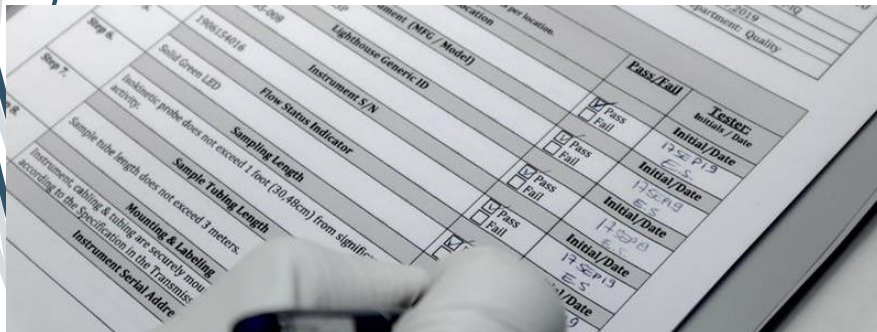
Auto-control System

Intercom system, monitoring system, sensors and actuators for temperature , humidity, air flow, cleanliness, noise, controllers, motorized valves, etc.



Cleanroom Floor

Epoxy Floor, PVC Floor and High-rise Floor
To be more efficient and effective, we strongly recommend project owner to make the following items ready before cleanroom construction.



Cleanroom Commissioning

Commissioning is a systematic process of assuring that a building performs in accordance with the design intent and the owner's operational needs.

Cleanroom Validation

After cleanroom commissioning, we should validate the cleanroom system, and we must ensure the design of the facility is fit for its intended purpose.

Cleanroom Documentation

Validation Documentation consists of

- Design Qualification
- Installation Qualification
- Operation Qualification
- Performance Qualification

- **MINI REFINARY, WATER AND STEAM PLANT** – EPC PROJECT – KHAZAR NAFT ARAS CO. OF JOLFA , IRAN
- **AAC BLOCK PLANT** – EC PROJECT - TOSEYE KHORASAN CO. OF SABZEVAR , IRAN
- **ASEPTICK PACKAGING PLANT** - EPC PROJECT - PAD ALVAN CO. OF ESHTEHARD, IRAN
- **CLEANROOM PLANT** – EPC PROJECT – MAADIRAN (LED MADULE PRODUCTION) , IRAN
- **POWER PLANT AUX BOILER** – EPC PROJECT – CASPIAN POWER PLANT (TEB CO.) , NOWSHAHR , IRAN
- **AUX BOILER ROOM** – EC PROJECT – KASHAN POWER PLANT – MAPNA (MANUFACTURER AZAR DAMAGOSTAR)
- **AUX BOILER ROOM** – EC PROJECT – ALIABAD POWER PLANT – MAPNA (MANUFACTURER AZAR DAMAGOSTAR)
- **BIOLOGICAL PHARMACEUTICAL PLANT** - EC PROJECT - ZIST DARU OF KARAJ , IRAN
- **UNDERGROUND FIRE FIGHTING LINE** - EC PROJECT – IRAN MALL TEHRAN , IRAN
- **UTILITY AND BOILER PLANT** – EPC PROJECT – NARMEH PAPRE CO. OF TABRIZ , IRAN
- **UTILITY AND BOILER PLANT** – EPC PROJECT – TABRIZ UNIVERSITY , IRAN
- **UTILITY AND BOILER PLANT** – EPC PROJECT – ARCO PAINTING CO. OF TABRIZ , IRAN
- **UTILITY AND BOILER PLANT** – EPC PROJECT – LALAYI CAKE CO. OF TABRIZ , IRAN
- **UTILITY AND BOILER PLANT** – EPC PROJECT – ANOUP DAIRY CO. OF TABRIZ , IRAN
- **UTILITY AND BOILER PLANT** – EC PROJECT – PAMIN EGG AND FOOD CO. OF TABRIZ , IRAN
- **CHEMICAL WATER TREATMENT & HVAC PLANT** – EPC PROJECT – FERROCHROME OF SABZEVAR , IRAN

- **UTILITY AND BOILER PLANT** – EC PROJECT - 29 BAHMAN HOSPITAL OF TABRIZ
- **UTILITY AND BOILER PLANT** – EC PROJECT - 522 MILATERY HOSPITAL OF TABRIZ
- **UTILITY AND BOILER PLANT** – EC PROJECT - IMAM HOSPITAL OF ORUMIYEH
- **UTILITY AND BOILER PLANT** – EC PROJECT - IMAM REZA HOSPITAL OF ORUMIYEH
- **UTILITY AND BOILER PLANT** – EC PROJECT - ALAVI HOSPITAL OF TABRIZ
- **UTILITY AND BOILER PLANT** – EC PROJECT - DEHKHODA HOSPITAL OF QAZVIN
- **UTILITY AND BOILER PLANT** – EC PROJECT - FAJR HOSPITAL OF MAKOU
- **UTILITY AND BOILER PLANT** – EC PROJECT - 12 BAHMAN HOSPITAL OF SHAHRE QODS
- **UTILITY AND BOILER PLANT** – EC PROJECT - SHOHADA HOSPITAL OF BONAB
- **UTILITY AND BOILER PLANT** – EC PROJECT - NOOR NEJAT HOSPITAL OF TABRIZ
- **CHEMICAL WATER TREATMENT PLANT** – EC PROJECT – KAVEH Steel OF TABRIZ , IRAN
- **CHEMICAL WATER TREATMENT PLANT** – EC PROJECT – IRAN MAYEH YEAST CO. OF TABRIZ , IRAN
- **CHEMICAL WATER TREATMENT PLANT** – EPC PROJECT – PARIN BETON CO. OF MASHHAD, IRAN
- **CHEMICAL WATER TREATMENT PLANT** – EPC PROJECT – COCA COLA (KHOSHGOVAR) CO. OF TABRIZ, IRAN
- **CHEMICAL WATER TREATMENT PLANT** – EPC PROJECT – ZAMZAM CO. OF TABRIZ, IRAN
- **CHEMICAL WATER TREATMENT PLANT** – EC PROJECT – SHIRIN ASAL CO. OF TABRIZ & ARDABIL , IRAN
- **CHEMICAL WATER TREATMENT PLANT** – EC PROJECT – PEGAH MILK CO. OF TABRIZ, IRAN
- **CHEMICAL WATER TREATMENT PLANT** – EC PROJECT – Ghazi Pharmaceutical CO. OF TABRIZ, IRAN
- **CHEMICAL WATER TREATMENT PLANT** – EC PROJECT – Glucosan CO. OF QAZVIN, IRAN
- **CHEMICAL WATER TREATMENT PLANT** – EC PROJECT – ABHAR WIRE AND CABLE CO. OF ZANJAN, IRAN
- **CHEMICAL WATER TREATMENT PLANT** – EC PROJECT – PARS HAYAT CO. OF ZANJAN, IRAN

➤ AND MORE THAN 80 SIMILAR PROJECTS



Thanks for your attention



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