



"Where Every Decision is a New Business Opportunity"

# AKG Presentation FALL 2022



# **AKG Engineering FZ-LLC Introduction letter**

## **EPC Company Leading and Innovating**

AL GAEMA GENERAL FOSFITAL-TOO DEES AL NAFDAWAN GENERAL HOSPITAL-200 DEDS AL HARTEM GENEDAL HOSDITAL-200 DEDS SULTANT Universal Hospital Services AKG ENGINEERING وزارة الصحة العراقية AL BASPAH CHILDREN HODITAL Disaster Emergency Readiness Training Center Henchael Corporation (+man AN AND ENGINEERING 1 UAE Head Offices Dubai : Dubai Health Care City (DHCC), Bldg.26, Office 704, P.O. Box:115524 Dubai - UAE Tel.: +9714 4560200 , Fax: +971 4 4560201 RAK : Amenity Tower 2, Floor 6, Office E8, P.O. Box: 34500 RAK, Al Hamra - UAE Tel.: +9717 2434518, Fax: +971 7 2434519 : Building C1, Floor 3, Office 303 D, P.O. Box: 5610 Ajman, AFZA Ajman - UAE Tel.: +971 50 4322092 Ajman **Iraq Branch Offices** Baghdad : Arasat Alhindya . Dis.929 . St.15 . Villa 26, Baghdad - Iraq Tel.: +964 7801965353 , +964 7709735445 : Bakhtiyari Province, St.151,Bldg.814/5/250, Erbil - Iraq Tel.: +964 7801965353 , +964 7714545777 Erbil Amman : Jabal Amman, Circle.3, Al-Riyadh Center, Floor 8, P.O.Box: 942329, Shmesany Tel: +962 798 710779 Jordan Regional Office Email: info@akg-eng.net

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## Introduction letter & Executive Summary

## **Introduction letter**

**AKG ENGINEERING** is a well- qualified ISO certificated Emirates company with its Head Quarter in Baghdad and with a good potential doing business In Iraq, Specialized in Implementing Turnkey style Projects, currently executing several Turnkey Hospital projects in Iraq in a verity of Turnkey contracts with the Iraqi government.

**AKG Engineering** as one of the lead Iraqi EPCC company in the Construction, Infrastructure operating in Iraq and has a perfect application to the International standards in successful project execution through our multinational experts. AKG also has knowledge and great logistics solutions for overseas operations.

AKG Engineering has its own fleet of equipment & machineries required for smooth, reliable execution

of work with a high recognized efficient performance time-wise and budget-wise, many of these

projects are part of cooperation or JV with international firms and technology suppliers.

#### WE are keen to support international organizations to do business in Iraq,

For any further coordination and clarifications, you are kindly requested to contact via e-mails our Business Development Team Leader as follows:

#### **Business Development Team Leader**

Jamal R. AL-Ibady Vice President - Business Development Director Cell Phone (What's up): +964 770 287 4860 Cell Phone: +964 782 788 6876 E-mail: jamal.rasool@akg-eng.net jamalrr57@qmail.com

Sincerely,

#### Dr. Mohammed Al-Khasaky Chairman & CEO

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#### **Executive Summary**

Group

**AKG ENGINEERING FZ-LLC** Through its provide professional Turnkey Projects, architecture, engineering, construction, program management, life and mission support, base operations, logistics, IT Communications and physical Security services to various international organizations , private and public entities. AKG ENGINEERING was founded in 2010 in UAE, and with full operations through its well-registered branch in Baghdad-Iraq.

**AKG ENGINEERING** has successfully completed projects in Iraq. Creates customized solutions to client needs, based on industry best practices and operating procedures. Best practices range from standardized accounting and financial procedures to ISO safety and reporting requirements. As we tailor solutions of client and mission needs,



Al-Khasaky Business Center -Ongoing Project



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Email: info@akg-eng.net



our objective is to provide the client with accountability, safety and quality control at all levels. AKG is a committed provider of construction, engineering and technical services, as well as private client business. Our strategic management initiatives help to identify solutions for optimal results and achieving success in business programs or task-specified projects. For ten years we have closely worked with our clients across a range of markets to develop and implement an

improved program for Managing complexity, change and progress, positioned to take full advantage of construction opportunities throughout Iraq and Middle East.

AKG Engineering is the leading provider of an optimum, world class services distinguished by technical project management expertise in both domestic and global construction Environment.

It has marked its presence in the construction industry, continuously delivering its projects on timely bases and within the budget, with the active entrepreneurial spirit and proactive business outlook keeping its reliable distinct in the industry. AKG Engineering teams are composed of highly qualified personnel who are well equipped with knowledge and experience in their respective profession, ensuring to maintain Its name in the construction industry with sense of integrity and great respect to its clients.

The financial situation of AKG ENGINEERING in Iraq is very sound. This financial capacity enables it to execute large constructions and transactions.







Completed

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#### Core Business of the Company:

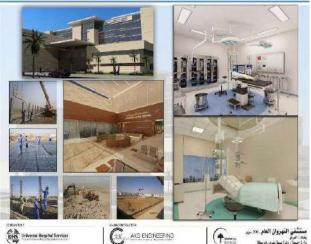
The Business Core of the Company is the turn key job EPC projects, and one of the leading supplies of complete solutions for Construction.

AKG Engineering is developing individual solutions tailored to local market conditions and health care system. Already at the planning stage, specific quality standards, individual client requirement and operating costs are taken into consideration, project-specific process and cost optimized planning safe guard's projects viability.

AKG Engineering great advantage is its full independence, so it can guarantee individual solutions tailored to the client's requirements.

AKG Engineering unique advantage is its wide and longlasting expertise in the global health care sector with an outstanding track record. In the past period since its establishment, AKG Engineering was able to build a very good reputation based on its positive response to the requirements of the clients.

The core business of AKG Engineering is the processing of projects to provide integrated facilities to the client mainly through its HQ in Iraq for the current strategic plan .For many years, AKG Engineering has been operating successfully in this highly specialized market segment. It is assumed that the market volume of Iraq will remain constant with annual deviations regardless of the international and local financial problems occurred due to the reduction in Oil Prices and COVID 19, That's why we are still interested to develop business with possible respectful clients in this territory. AL NAHRAWAN GENERAL HOSDITAL- 200 EEDS



Al-Nahrawan 200 beds General Hospital Baghdad - Ongoing.

#### AL CADMA CENEDAL HOSPITAL- 100 EELS



AL Qarma 100 beds General Hospital Al-Anbar - Ongoing

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The company has as its disposal, the equipment and the capacity as well as the experienced staff to ensure the most efficient execution of projects in which the company is engaged.

#### AL HAKEEM GENERAL HOSPITAL- 200 HES



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Al Hakeem 200 beds General Hospital Al-Najaf - Ongoing

#### **HOSPITALS PROJECTS**

AL NAHRAWAN GENERAL HOSPITAL-200 DEDS

AL CARMA GENERAL HOSPITAL-100 BEES

AL HAREEM GENERAL HOSPITAL-200 EEDS











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#### **Project Development:**

- Sector studies.
- Locating concepts.
- Feasibility study.
- Information system.
- Financial engineering.
- Contracting.

#### Hospital Design:

- Architectural design.
- Functional and operational design.
- Equipment planning.
- Management concepts.
- Cost estimates.
- Financial engineering.

#### **Engineering & Construction**

- Engineering.
- Construction.
- MEP Equipment.
- Logistics.
- Cost and time controlling.
- Supply and installation of equipment.
- Testing equipment.
- Cost & time controlling.
- Commissioning, User training, conversion of • Management Concepts.
  - Commissioning.
  - Staff training.
  - Conversion of management concepts.
  - Staff recruitment.



**Basrah Children Hospital - Completed** 



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AKO ENGINEERING

DARALYMPIC EUILDING PROJECT

Paralympic Building Project – Completed

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- Guarantee service and maintenance.
- Guarantee service.
- Service and maintenance.
- Training personnel.
- Management of spare parts.
- Management
  - Overall management.
  - Technical / Facility management.
  - Optimization of plant operation.
  - Organization & training staff.

#### AKG Engineering scope of work includes:

- Design, planning and turn-key realization and other facilities.
- Design, planning and supply of complete technical equipment packages.
- Project management from initial planning to start-up.
- Service and maintenance.
- Strategic consultancy, feasibility studies, investment planning arranging of financing.

#### AKG ENGINEERING main advantage is:

- Quality
- Functionality
- Independency
- Total operational effectiveness.

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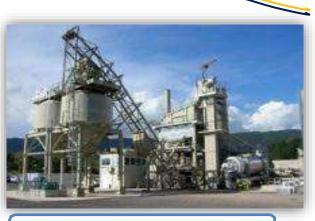
Police Club Sports Complex –On-Going



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**Diwaniyah Asphalt Plants – Completed** 

## **Business**

#### **Regulations and Permits**

The company is working as full operations in the Iraqi market as its main targeted market, working according to the permits and regulations of the international clients , Iraqi government and the Ministries plus the various local Governorates.

During the past operational performance AKG ENGINEERING was able to obtain all required permits without any problems or concerns.

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#### **Strategic Alliances**

AKG ENGINEERING upholds its reputation in the construction industry through successful collaboration with highly respected and well known Multinational Companies. Its partnerships with market leaders has set its goals high on pioneering in new technological trends in Contracting industry, tapping new markets and established its base hold as the preferred contractor while keeping up the international standards, integrity and ethics.

#### **Services**

The Iraqi market is our addressed target for our services, and it is a growing potential which allows to more opportunities. AKG Engineering is becoming now one of the leading specialized entities specialized in the design ,procurement and construction of Hospitals; it is a truth that our operations and continuous development of our capabilities, relations and approach had a very positive effect on our reputation and the most added values for our services is the full trust in our commitments.

AKG Engineering is recognized as 'A' Grade Contracting company in the construction industry and has made its reputation in Quality Management as a certified 9001:2008 Quality Management Company and has refined its reputation through successful collaboration with highly respected and well known Multinational Partners.

Our thrust is to provide professional project management services that lead to result and balance of practicality with project and construction management discipline.

We manage our projects 24 hours a day, 7 days a week, by specialized cameras with full zooming and recording via dedicated high technology facilities designed specifically by our IT Team.



Our competent team has a clear ability to grasp the complexities of the challenges with each project. We organize and bring forward a realistic plan to full implementation and execution so as to deliver the project on time, within the budget and with superior quality that will surely ascertain the success of the project.

Additionally, our construction supervision evolves on the process of observation, analysis, quality control and communication to ensure that the progress of the project is as per the construction contract requirement. We work with a complete manual system for tracking, controlling and reporting procedures to ensure a high level of supervision of work progress.

Our ultimate objective is to achieve a full management of our client's project and to deliver beyond the desired results of our client.

We provide multi-disciplined design that specializes in civil engineering, planning and surveying. We ensure satisfaction and return of investment through our accurate and innovative designs. We take pride of delivering the best quality yet reasonable contracting services. We formulate the means and methods for the proper execution of the project in accordance with the contract

documents.

From the smallest build-out to multimillion dollar building construction, we work with the highest degree of professionalism, field supervision, safety and quality control. From pre-construction to project close-out, our services include:

- Contracting Services
- Selection and Management
- Full-time Site Supervision
- Cost & Quality Control
- Time Schedule

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#### **Professional Support**

Our company is dealing with many consultancy services to serve its operation in a legal way, among them are:

- Talal Abu Ghazaleh & Co international serving our auditing and financial affairs.
- Universal hospital services, UHS, who is providing full design and health care planning for our projects.
- Hanwha Corporation KOREA A legalized MOU and Consortium Agreement Certified by the Iraqi Embassy in Seoul.
- Samsung C&T Corporation KOREA A legalized Consortium Agreement certified by The Iraqi Embassy in Seoul.
- SD Partners and Myongji KOREA A legalized MOU certified by the Iraqi Embassy in Seoul.
- DAR Engineering International KSA Signed Consortium Agreement, Certification by The Iraqi Embassy in Riyadh is under processing.
- Mokul Infra-Structure INDIA Consortium Agreement
- GE Healthcare USA Strategic Partnership. Cyclotron Projects in Iraq.
- Marini Fayat Italy AKG is the main agent in Iraq.
- Another Agreement has been done with many International possible Sub-
- Contractors , partners and suppliers, among them are:
- Piraziz International Service Solutions Turkey.
- FUJAIRE (M) SDN. BHD. Malaysia.
- E&S Global KOREA.
- Stroitel VD Ltd. Bulgaria.
- SIMA SA Spain.
- Ekin Projects Turkey.
- Mentor management Consultants India.
- STSTEEL-TECH Corporation KOREA.
- SC TMUCB SA Romania.
- Nordic Sport Sweden.
- FACO Global KOREA.
- RASCO International Pakistan.
- Vishal management Consultancy UAE.
- MERC Construction Turkey.

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- Edel Grass Netherlands.
- SMG TURK Turkey.
- ZheJiang BergMan IndustryLtd.CO China.
- ŞA-RA GROUP Turkey.
- RANTZOWS SPORT AB Sweden.





#### <u>General Experience</u>

AKG Engineering is committed to depiction excellent contracting services and will continue to deliver unique, dependable and affordable contracting solutions through its technical expertise, sound business practice and will always be foremost and perfect Contracting solutions.

**AKG ENGINEERING** is enthused on becoming the world class building contracting in the industry and aim to deliver contracting solutions with inimitable creativity, highest quality and affordable to clients through it's highly trained and technically competent Project Management team and Construction Staff.

Our company consist of 400 employees, including engineering, administration and technical staffs which consist of professional engineers, supervisors and skilled workers in addition to our available equipment which will be ready in the jobsite whatever in need.

- **AKG ENGINEERING** has a permanent culture and a continuing focus on responsible Health Safety, Security and Environmental conduct and compliance and a "Goal Zero" target in safety for all company operations.

- AKG Engineering shall obtain all required permits, local authorization in timely manner.

- **AKG Engineering** shall provide free access to Contractor site representatives and shall make available on site engineers for periodic review, daily follow-up,

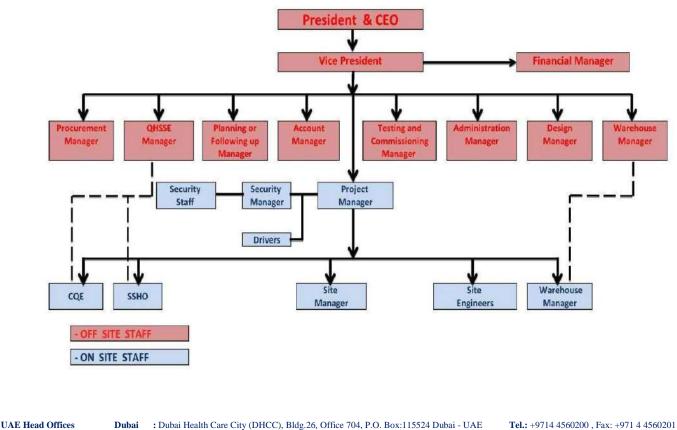


- AKG Engineering Experience in Construction could be identified through its Achievements during the past period.
- AKG Engineering shall provide all necessary drawings, design specifications, design details, operation and maintenance manuals and other required information.
- English/Arabic Speaking Representative: **AKG ENGINEERING** shall designate an English/Arabic fluent speaking and writing representative who shall supervise our workforce and be the AKG ENGINEERING's liaison with Engineer.

The designated representative shall be located on site in an office designated by Client during normal working hours and shall have supervision as its sole function during the times while on duty. The contractor's employees shall be on site only for contractual duties and not for any other business or purposes.

## **Project Implementation Scheme**

## Organization Chart to implement the project



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## **Key Personnel**

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Additionally, our construction supervision evolves on the process of observation, analysis, quality control and communication to ensure that the progress of the project is as per the construction contract requirement. We work with a complete manual system for tracking, controlling and reporting procedures to ensure a high level of supervision of work progress.

Our ultimate objective is to achieve a full management of our client's project and to deliver beyond the desired results of our client.

### Key Persons:

#### <u> Dr. Mohammed AL-KHASAKY – Chairman & CEO</u>

a successful self-made business entrepreneur, is Bsc. Civil Engineering / Structure Engineering holds a Msc. Project Management / Intelligent Decision. He successfully supervised, directed, Industrial & Residential projects, Project Manager for various Projects, Construction Manager for various Industrial projects, and Designer and in charge of supervision for numerous Industrial Buildings.



During More than 24 years of his successful experience he was providing feasible, strategic and operations leadership in uniquely challenging situations.

Dynamic, results oriented leader with a strong track record of exemplary performance in a highly competitive industry. Superior interpersonal skills, capable of resolving multiple and complex issues and motivating staff to peak performance.

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#### Eng. Jamal AL-Ibady – Vice President – Business **Development Director.**

Group

Senior Chemical Engineer, 1979, University of Baghdad.

Experienced and highly motivated marketing, branding and research management and e-business, Experienced in managing projects, Particularly interested in providing high support to Medium and Big sized projects in their strategic and operational decision making and throughout all stages of their research activities .



Highly experienced and qualified professional, highly motivated working with international associations and Embassies for commercial coordination, liaison and Project planning and management, held several Managerial positions with progressively increasing responsibility & experience in these fields.

His extensive Management experience and knowledge of Iraq's projects gives him a unique ability to find effective and efficient solutions to the problems of Iraq's development.

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## Workforce Utilized in our projects:

There are several activities in the project some of are not included to the critical path so we have a large manpower working together and some are included to the critical path so no activities can be performed together and that way we will keep the required manpower for each activity included to the critical path.

Generally we will keep the minimum requirements as follows:

#### Site Manager:

Senior Civil Engineer who has good experience with similar job and fifteen years familiarity with the systems associated with the Construction project and seven years supervisor experience. He is the company's representative at site, authorized to act on behalf of the company, and he is responsible for:

**a.** Coordination, management and direction of all the relationships with the subcontractors, employees, foramen and workers for all operation areas.

- **b.** Coordinate with the other parties if there is a need for the engineering works of the project.
- **c.** Oversees safety and health, technical quality, and compliance with applicable regulations.

**d.** Develops and implements recordkeeping, system for administrative, QC, and project closeout.

- e. Motivating team members to stay on target
- f. Overseeing quality in the field and customer satisfaction.
- g. Arranging all the testing activities with QC Engineer.

#### QA/AC Engineer :

Senior Civil Engineer. He will be responsible of preparing a QC plan in cooperation with team to meet standards specs and workmanship. He has a good experience in QC management and ten years familiarity with cods and specifications and ten years familiarity with the systems associated with QA/QC of the construction projects.

He is responsible for:

**a.** Monitoring the implementing of the project according to the contract requirement.

**b.** Taking samples from the construction material to test it according the Iraqi Standard.

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**c.** Reporting daily to the Quality Assurance Manager about the quality of the works carried out by the project.

#### Safety and environment requirements Officer:

Senior Safety Engineer who also has a good experience in similar jobs and Seven years familiarity with the Health and Environmental Requirements of the systems associated with the construction projects.

#### Each/Every other Project engineer:

They will have a schedule and specs to work on. Each/every engineer will distribute activities to the professional foremen identifying the recourses required according to the schedule for fluent progress and optimum quality.

The engineers will be engaged to each activity performance and maintain hourly instructions to the foremen to avoid mistakes and corrective actions. All Engineers has Bachelors degree with more than five years supervisor experience more than Three years familiarity with similar works.

#### Project's other staff:

- All workers performance shall be up to generally accepted international safety standards. Our staff
  is fully trained in the operation of basic grounds keeping machinery such as using of civil, electrical
  and mechanical devices and equipment and so on. Proper safety equipment must be used at all
  times when using machinery.
- All the tools and equipment necessary to perform all contract requirements shall be provided.
   These tools and equipment shall meet the required international codes and be in a serviceable, clean, and working condition.

#### Project personnel:

- **AKG ENGINEERING** will not replace workers without approval of Client representative, It will supervise the work by regular visit to the premises, a fortnight progress meeting shall be held.

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- We will replace the manpower immediately in case any worker is not found fit for work, or he is not regularly attending his duty, or he misbehaves or does not follow the instruction of Client staff members.
- Each foreman will assign the labors and provide support to the labors to keep progress under the supervision of the engineers.
- We shall provide all personnel, and sufficient numbers, to fully and satisfactorily undertake the services described on this request for proposal.
- We shall make adjustments in personnel numbers and tasks in order to meet the needs of Engineer.
- AKG ENGINEERING's on-site operations representative shall act with full authority for the contractor and shall be responsible for overall, complete and competent management and coordination of work under this contract.
- We shall provide the following before commencement of the works:
- Complete list of workmen on-site and their identity Card numbers.
- List of equipment, tools, and vehicle required to perform this task.
- Name, telephone numbers of the site Supervisor focal point.
- We shall be solely responsible for workmen/employee insurance, etc., as may be required by law and will be responsible for providing medical support in case of any work related incident.
- We shall provide all uniforms and / or overalls and, where appropriate, protective clothing/coverings including but not limited to, gloves, safety glasses, face masks, footwear and headgear to comply with international requirements for health and safety at work masks, footwear and headgear to comply with international requirements for health and safety at work.
- All personnel assigned by AKG ENGINEERING for the performance of the respective activities shall be regular employees of the contractor, and shall be supervised by him.
- There shall be no employer-employee relationship between the Client and the personnel. Subcontractors may only be employed with the express written consent of client.
- -The scheduled working week at the Site is based on 60 hours, Saturday through Thursday. However, the Contractor shall plan to work such hours, shifts or overtime as required to prosecute work in accordance with schedule.



## **Field Logistics**

AKG Engineering will provide operation and maintenance of the project with advance technical skills, extensive business experience and strong key leadership. We provide efficiency and stability to a growing business community in various sectors such as Preventive Maintenance, Electrical, Plumbing, H-VAC, Generator Maintenance, Power Supply Operation, Carpentry, Welding, Housekeeping, Cleaning and more.

We will assure that the client will have a complete on site office, residential site accommodation and with all facilities, kitchens and laundry and cold storage built to provide the best comfort for its personnel and laborers on site. Along with the latest telecommunications for workers on site to keep in touch with their families and recreation purposes and storage buildings for its materials and goods. We have established medical facilities on site with medical practitioners that are well trained to handle first aid treatment on site. On site, we have an ambulance and complete medical supplies. All facilities are extensively furnished to allow its employees to experience much needed rest after long hours of work.

<u>Water tanks</u>: in case the main source of water supply was affected by the insurgency, we have two types of Water tanks as follows:

Water tanks for utility use which the supply comes from the deep well

Water tank for consumption which the inside of the tank is coated with epoxy paint.

#### **Generators**

Used as an alternative when there is an intermittent power connection to augment the power supply.

#### **Diesel Storage Tanks**

Used as containment for diesel storage to be used by the generators.

#### **Procurement/Delivery of Materials**

There is a problem in sourcing materials and goods to some sites, we will try our best to find solutions to this requirement, For security purposes, we provide a strict security convoy on the delivery vehicle and should there be road block due to security reasons, we utilized our Store

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Cabins/Sub Store for safekeeping of imported materials.

## Project Schedule

**AKG ENGINEERING** shall provide a well thought out and solid technical plans for applying informatics and information technology to the proposed project. That shall include a description of the methodology that will be used to complete the project and the specific plan for implementation within the time/schedule constraints defined in the invitation. Also we shall apply tasks description of project activities for which are but not limited to the submittal procedures, delivery, storage handling, products, and work execution procedures. Plans shall contain no Alterations, omissions or additions, except those to comply with instructions issued by the Client.

Prior to commencing work, we shall submit detailed method statements setting out full details of methods of working. And will provide a brief of how could we perform the work according to time schedule showing the major items of work.

**AKG ENGINEERING**, used to complete its projects according to the contractual time schedule, we planning to do the same for this project, so according to our experience and the qualified staff, we will finish the details inspection of site and survey work, the mobilization work will start ASAP in order to gain more time for work

According to the required period of project, we shall plan to provide a complete staff for getting successfully completed activities.

As known by our past clients, we always follow this procedure and the result is fast and high work quality in all construction and equipment installation fields.

## Security Plan

During the performance of the Work, we shall establish and maintain a security program, which as a minimum, in compliance with the Project security requirements. This shall include a written Security Plan which shall be submitted to The Client for review and approval within thirty (14) calendar days after contract award and in any event prior to commencing work at the Jobsite.

Such a program where appropriate shall include;

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A. Controlled access to office, warehouse, material and equipment sites.

B. Physical security of office, warehouse, material and equipment sites, to include periodic security checks of all work areas assigned to AKG ENGINEERING.

C. Control of material and equipment packaging, transportation, and delivery to the Jobsite.

D. Accountability procedures for storage, requisition and issue of material and equipment.

E. Personnel security to include, but not limited to, compliance with Project work rules (access, badging, prohibited activities and items, etc.)

F. Communications security to include, use of radios, radio finders, beacons, etc.

G. Compliance with the Project Emergency Response Plan to include, emergency notification lists, personnel accountability procedures, etc.

H. Compliance with all Project security programs and the coordination measures, with The Client, and others on the Jobsite, established for that purpose.

I. Compliance with The Client security guidance instructions.

J. Prompt reporting of incidents of loss, theft or vandalism to The Client subsequently detailed and provided in writing.

#### <u>Purpose</u>

The purpose of this Security Plan is to outline how the safety and security of the personnel working for, will be assured while working on each Task Order assigned project.

This plan will include provisions for the safety and security of personnel both at the Jobsite and while in transit between their place of accommodation and the work site.

Where appropriate security arrangements at the place of residence are also included.

#### **Location**

Outline description of site location, access roads, routes to and from site, nature of local area – built up, open country - perimeter fence/walls, perimeter lighting, entrances and exits, control systems, CCTV, guard services, EOD risks, alarm systems, over -watch positions, internal fencing, 'safe' areas, hardened buildings, accommodation facilities, medical and firefighting facilities.

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#### <u>Threat</u>

The threat to personnel, property and the successful execution of Work in Iraq stems from four main areas.

A. Terrorist activity executed by Former Regime Loyalists/ Former Regime Extremists conducting operations against the Coalition Forces and its civilian component in an effort to maintain instability and cause the reconstruction program to fail.

B. Terrorist activity executed by foreign terrorists moving into Iraq to target western interests, particularly American, which they see as a threat to their religion, culture and established system in the Middle East.

C. Armed criminal activity conducted by well-organized and well-armed criminal gangs which make a highly profitable living by large scale theft and re-selling of 4x4 vehicles, equipment, tools and material.

D. Tribal and religious tensions that frequently erupt into widespread violence and which may impede work or movement.

E. Criminal activity directed against foreign nationals and the reconstruction program in general as part of the culture of corruption as a legacy from the deposed former regime.

The following security measures constitute the major elements of the Security Plan:

#### A. Site Security.

- i. Perimeter Fencing/walls/razor wire/CCTV
- ii. Perimeter Lighting/internal perimeter patrols/clear zones

iii. Access Control, search procedures/guard room, ID Cards/Visitor regulations/delivery procedures/escorts.

- Iv . Security of offices, warehouses material and equipment.
- v. Guard Force/uniforms/weapons/communications/towers/Rules of Engagement.

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- vi . FPS/Local leading personnel's in the project society.
- vii . Communications security.
- viii. Hardening of offices/accommodation sand bags
- ix . Liaison with local law enforcement agencies.
- x. Identification of personnel on site
- xi. Construction of berks and barriers
- xii . Positioning of accommodation and office blocks
- xiii. Communications facilities
- xiv. 'Safe' areas
- xv. Vehicle parking
- xvi. Chicanes, blast walls, 'stand -off' distances

#### B. Personnel Security on Site and in Transit.

- i. Convoy Procedures/min & max number of vehicles per movement.
- ii. Compliance with Government Transport procedures.
- iii. Wearing of body armor and Kevlar helmets in soft-skinned vehicles.
- iv. Vehicle equipment/trauma packs/GPS/UHF-VHF radios/maps.
- v. Spare tools, jacks, winch, and wheels.
- vi. Restrictions/night-time/day-time/speed limits.
- vii. Number of pox per vehicle.
- viii. Equipment for security personnel/training requirement for drivers.
- ix . Accident/incident procedure.
- x. SOPs for check points.

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- xi . Armored vehicle Vs. un-armored vehicle status.
- xii. Personnel training/security briefings/security reports/updates.
- xiii. Incident reporting/actions on incidents.
- xiv. Security Company rules of engagement/manning levels/size of teams/tasking.

#### C.Camp Security.

- I. Headings.
- ii . Security Operations Centre/manning levels/reporting chain.
- iii. Responsibility for audit.
- iv. Camp Evacuation Plan.
- v. Medical support.

#### Equipment

Break down of equipment requirements such as weapons, ammunition, vehicles, storage containers, ID card making machines, body armor, radios, uniforms for national guard forces were employed, authorization to carry weapons, offices and office equipment, etc.

#### **Government Orders**

Compliance with Government Orders, in particular Orders governing the issues and governing the issues and registration of weapons and ammunition.

#### **Medical Evacuation**

First line medical cover will be provided.

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#### **Reporting**

All incidents of loss, theft or vandalism are to be promptly reported to The Client with written reports provided within 48 hours of the incident. Security incidents involving personnel are to be reported by the quickest means available direct to The Client's Security Department with a written report to follow within 24 hours.

Written reports must include lessons learned and proposed actions to be implemented to prevent a recurrence of the event.

## **Construction Equipment & Facilities**

**AKG Engineering**, shall provide all Heavy machinery for the requirement of the construction and shall assign specialized and adequate persons to perform management of heavy machinery, shall maintain all heavy machinery in a clean and best working condition at all times.

We shall provide and use only such construction equipment as is capable of producing the quality and quantity of work required by the Contract and within the time or times specified in schedule. Before proceeding with execution of any portion of the Works at the Site, including but not limited to temporary structures, offices and warehouses.

We shall furnish the Client with such information and drawings relative to such construction equipment and facilities as the Client may request.

**We** shall, arrange for, develop, and maintain utilities and facilities at the Site to execute the Project under the Contract, including but not limited to:

- Illumination
- First Aid Facilities,
- Temporary Furnished Field Offices,
- Fire Prevention/protection,
- Potable Water,
- Construction Service Water and Fire Water,
- Toilet Facilities,
- Trash Disposal,
- Security for the Site and Off-Site facilities,
- Identification badges,

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- Back-up Power,
- Telephone and Fax Service,
- site facilities for Contractor/Owner/Consultants

**AKG Engineering,** will, at all times, keep its working areas at the Site in a neat, clean, and safe condition. Waste material shall be removed by our team from working areas on a continuous basis. Upon completion of any portion of the Works, We will promptly remove all of its construction equipment/machines, temporary structures, and surplus materials not to be used at or near the same location during later stages of the Works.

Upon completion of the Project, We will, at our expense, satisfactorily dispose of all buildings, rubbish, unused materials, and other equipment and materials belonging to it or used in the performance of the Works, including return of any unused salvageable materials supplied by the Client for incorporation into the Works to Client's warehouse or storage area on the Site.

AKG Engineering will leave the premises in a neat, clean and safe condition.

AKG Engineering operations will be performed as to prevent accidental spillage of contaminants, debris or other pollutants and waste into streams or underground water sources.

Dust by the Contractor, as far as practicable, will be minimized.

Excessive noise levels will be controlled.

AKG will supply all plant and equipment necessary for the construction of each phase of the Work. Through its partner AKG Engineering who owes those well registered assets and equipment locally in Iraq, It includes but not limited to the following assets:

S.No.	Item	Quantity
1	Batch Plant - 80m3	5 Nos.
2	Tower Crane - 10 & 12 Ton	10 Nos.
3	Construction Hoist Double Cabin	4 Nos.

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4	Canter Pick Up with Crane - 3 Ton	3 Nos.
5	Canter Pick Up with Crane - 4.2 Ton	2 Nos.
6	Double Cabin Pick Up - 1 Ton	8 Nos.
7	Steel Containers - 20' & 40'	32 Nos.
8	Water Tanker	4 Nos.
9	Diesel Tanker	2 Nos.
10	Concrete Tuck	12 Nos.
11	Concrete Pump - 36M & 42M	4 Nos.
12	Wheel Boom Loader	3 Nos.
13	Backhoe Loader Excavator JCB	3 Nos.
14	Skid Steer Loader	1 No.
15	Double Drum Roller	1 No.
16	Dumper - 2 Ton	3 Nos.
17	Electric and Diesel Mixer	12 Nos.
18	Caravans (diff. sizes)	85 Nos.
19	Bus - 77 Seater	2 Nos.
20	Mini Bus	5 Nos.
21	Mini Bus – Ambulance	3 Nos.
22	Site Car 4x4	6 Nos.
23	Roller Compactor	6 Nos.
24	Plate Compactor	18 Nos.
25	Electrical Generator (diff. capacity)	20 Nos.
26	Welding Machine (diff. sizes)	30 Nos.
27	Vibrator	40 Nos.

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28	Bar Bending Machine	12 Nos.
29	Bar Cutting Machine	12 Nos.
30	Power Float	8 Nos.
31	Automatic Level	18 Nos.
32	Automatic Theodolite	10 Nos.
33	Automatic Total Station	8 Nos.
34	Wood Sawing Machine	16 Nos.
35	Hilty Drilling machine	72 Nos.
36	Concrete Cutting Machine	8 Nos.
37	Air Compressor	3 Nos.
38	Auto Gas Cut Set	6 Nos.
39	Angle Cutting Machine	3 Nos.
40	Hilty Coring Machine	3 Nos.
41	Bench Drill Machine	6 Nos.
42	Tile Cutting Machine	6 Nos.
43	Tile Cleaning Machine	3 Nos.
44	Block Cutting Machine	6 Nos.
45	Electric Hoist	5 Nos.
46	Hilty Grinder	19 Nos.
47	Hilty Gun	12 Nos.
48	Dewatering Pump	34 Nos.
49	Steel Props Jack	5000 Nos.
50	Scaffolds (diff. types)	12000m2
51	DOKA Table Forming System	18000m2

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Following are other miscellaneous special/standard tools to be used: Multiple special tools Multiple hand tools Multiple constructions testers and metering devices Multiple NDT testers Multiple electrical testers Multiple electronic testers Multiple Safety and Health PPEs and Testers Precise measurement tester and devices. HVAC and MEP testers. Air, Water, Liquids leakage detection devices. Sound and vibration metering devices. Personnel and facilities security detectors and control system. All other tools, device, testers, necessary for successfully completion of project tasks, such as Jack Hammers, Sag Pullers (for cable tensioning), Loaders, Submersible pumps, Tractors(for reel transporting), Hydraulic Jacks, Gas Torches, .... Etc.

## Temporary site Samples in our projects

A local construction residential camp shall be prepared away from the site location. AKG Engineering will construct at the site location following Temporary Site Facilities:

**a.** Site Construction Offices includes toilets , telephone / Communication system, lighting system, furniture, communication facilities, etc. Transportation to / from and around the site. Power and water supplies other than at the Construction Temporary Facilities Area

b. Areas for main warehouse and main permanent project material.

c. Canteen facilities, Potable water for the contractor site office.

d. First aid within the temporary facilities, and ambulance / transportation to hospital

**e.** will construct system to get rid of Disposal of the surplus, disinvested material, piping, reinforced concrete, grout, soil, greenery / foliage, dredged materials, insulation, plates, concrete cube test cylinders, etc. Supply and control of skips / bins and rubbish collection points and disposal of waste and rubbish.

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**f.** All materials / consumables / tools / equipment / calibration /services to be test for all the required testing.



## **Standard and Codes**

More over Contract's special specification, drawing, and plans a; AKG Engineering will perform all construction work in conformance with the following Codes:

- 1) International Building Code, 2003 Edition
- 2) International Plumbing Code, 2003 Edition
- 3) International Mechanical Code, 2003 Edition
- 4) International Fire Code, 2003 Edition
- 5) National Electric Code, 2009 Edition
  - 6) National Fire Protection Association, NFPA 101 & NFPA 58
  - 7) IEC standards.
    - ASME II for material specification.
    - ASME V for Nondestructive tests.
    - ASME V III for pressure vessels.
    - ASME IX for welding qualifications.
    - ASTM for materials.
    - ISA for instrumentation.
    - ANSI for valves, piping, flanges, fittings.
    - AISC for steel construction.
    - AGA for gas equipment specifications.
    - ASHRAE for heating refrigerating air conditioning.
    - EN for electrical and mechanical equipment.
    - IP for mechanical protection degree.

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- NFPA for fire protection.
- API all versions of API STD that it uses in field of petrochemical industries.
- ISO for mechanical equipment.
- IEC, CEI, and VDE for electrical equipment.
- NEC for electrical codes.
- NEMA for electrical manufacturers.
- ACI, BSI and NSI for civil engineering.
- DIN, TUV, JIS and BS for equipment.
- AWWA for water works.
- TEMA and HEI for heat exchanger.
- AWS for welding
- Electrical protection suitable for hazardous area.
- The specification of explosion protected are: CENELEC(KEMA)/KF1 and The explosion protected for electrical equipment must be EExdelIBT1-T3.

### The following codes and standards will be applicable.

Vessels:

- ASME section VIII. Latest revision.
- ASME boiler code latest revision (for atmospheric vessel).

#### Heat Exchangers:

- TEMA class R and ASME code section VIII.
- API 650, API-640. API-661.
- ASME section VIII Division-I.

#### Machinery:

- API -610 centrifugal pump latest addition.
- API -675 positive displacements (controlled volume).
- API -617 centrifugal compressors.
- API -618 reciprocating compressor.
- API -611 turbines.

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#### Piping:

- ANSI B31-3, ASME sec. 1.
- Fitting (ANSI B-16-5 for boiler system).

#### Instrument:

- ISA
- IEC
- UL and NEC.
- ANSI B 2.1, 16.5 and API RP 550.

#### Safety:

- API 520, API 521. ASMIE code section 1 & section VIII.
- Safety and fire protection requirements shall be according to NFPA code.
- Pollution shall be relevant to USA standard (EPA).
- Noise shall be according to OSHA or relevant USA standards.

#### Electrical:

- IEC, CEI and API RP 500 A, VDE.
- API RP 520, RP 521and ANSI B 2.1.
- Safety and fire protection requirements shall be according to
- NFPA code, API
- Standard and (OIA) standards. Pollution shall be relevant to USA standard (EPA).
- Noise shall be according to OSHA or relevant USA standards.

#### Civil

• Standards and Codes:

The following standards shall constitute as guide for design.

- A.C.I American concrete institute.
- N.S.I American national standards institute.
- A.I.S.C American institute of steel construction

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All materials imported must conform to ASTM (American society for testing and material) and local materials shall conform to the local IRAQI Codes.

#### Other Standards such as:

 DIN, TUV, JIS and BS<sup>4</sup>

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# **QUALITY CONTROL and QUALITY ASSURANCE**

AKG Engineering is an ISO Certified Quality Management Company. AKG Engineering will be responsible for quality control during construction and for meeting end results for all design parameters, will follow prescriptive contractual requirements in performing suitability and control tests.

AKG ENGINEERING under our full management, will describe the Detailed Quality Control Program in written document which will be reviewed by the Engineer prior to the start of any production, construction, or off-site fabrication.

The Quality Control Program will be organized to address, as a minimum, the following items:

- A. Quality Control organization;
- B. Project progress schedule
- C. Submittals schedule
- D. Inspection requirements
- E. Quality control testing plan
- F. Documentation of quality control activities
- G. Requirements for corrective action (if quality control and/or acceptance criteria are not met).

**AKG Engineering** is encouraged to add any additional elements to the Quality Control Program that deems necessary to adequately control all production and/or construction processes required by this contract.

**AKG Engineering** is committed to a quality process which is built upon continuous improvement of its business processes to ensure that it's Work, Products and Services MEET or EXCEED its customer's expectations.

To ensure that the supply and services under the scope of THE contract, whether manufactured or performed within our works or at its subcontractors' premises or at site or at any other place of work, are in accordance with the specification, regulations and relevant authorized standards.

We will adopt suitable quality assurance programs and procedures ensuring that all activities are being controlled as necessary.

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The Quality Assurance arrangements will conform to the relevant requirements of ISO 9001.

The Systems and Procedures which the Contractor will use to ensure that the works comply with the contract requirements will be defined in the Contractor's Quality Plan for the works.

**AKG Engineering** will, for all phases of work be performed under the contract, establish and implement Quality Assurance arrangements which, as a minimum, meet the requirements of ISO 9001, "Model for Quality Assurance in design, development, production, installation and servicing".

We will ensure that all work carried out under the contract is performed by suitably qualified and skilled personnel and that good quality materials, which meet relevant international standard specifications, where such exist, are used.

## Inspection system:

## Which shall include but not limited to :

(a) Develop and maintain checklists of duties to be carried out,

- (b) Ensure these duties are carried out by the supervisory staff and senior employees.
- (c) Perform inspections at all work locations to determine whether the various works are being performed according to the contract requirements.
- We will provide copies of all inspection reports to the client.

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We will to the attention of the client for disposition, any conditions beyond the responsibility of the contractor.

**AKG Engineering** will prepare a complete set of Management, Co-ordination, Execution, Quality System and HSE procedures for approval by client, and ensure that the approved procedures are complied with by all concerned.



**AKG Engineering** will Support third party technical audits as agreed and approved by client and advice client the results of each audit together with the appropriate action taken and any other recommendation for client consideration.

#### Tests:

- Within 30 days prior to mobilization of works, site construction, inspection and test plan(s), will be submitted defining relevant inspection and test points for all stages of construction/erection, installation and commissioning.
- The inspection and test plans shall identify activities for which methods shall be prepared.
- The Methods will be submitted to Client for review.
- Program of site construction works will be submitted to Client, giving notification of forthcoming works and test/inspections on a weekly basis.

#### Submittals:

AKG Engineering will submit a comprehensive contract specific Quality Plan for review and comment, within two weeks of award of contract.

Submittals will be tied to the construction schedule to facilitate early start up work and long lead time items (if any).

## **Variations or Deviations**

Materials and methods will be submitted, reviewed and approved the Client Representation prior to the work being done.

#### **Submitting Variations**

Variations to the specifications need to be submitted to the Owner's representative, as soon as a specific need arises.

## **Approving Authority (Approval Statement)**

All submittals will be submitted, receive and approved pursuant to the contract Specification.

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# Safety & Accident Prevention Plan

Accidents prevention and the safety of our workforce are of the utmost in importance. No phase of operation is considered more important. Accident prevention and safety go hand-in-hand with efficient operations. Each member of this company carries responsibility for safety on the job. We can only meet our objective if we have full support and cooperation of every employee.

Management recognized its responsibility for promoting the highest standards of Health, Safety and Environment and is committed to developing and maintaining appropriate procedures and plans to achieve the objectives of this policy.

AKG Engineering will in all ways comply with Client Safety Rules regarding electrical equipment and the safety of men working thereon to ensure employee Health, Safety and Environment (HSE) performance in all areas of operation, management at every level provides sufficient resources and training where required.

AKG Engineering Safety Program includes safety plan, accident prevention plan, records and notification. Procedures, Project Specific Hazard Assessment, Construction Activities Hazard Analysis (AHA), and project safety instructions.

# CERTIFICATES

Our long-standing experiences are enhanced and broadened through permanent exchange on the basis of our membership in several associations and institutions.

## Quality management which speaks for itself ISO 9001:2008

Quality is important to AKG Engineering.

The staff of AKG successfully applies the Quality Standard DIN EN ISO 9001:2008 through active Quality Management within the company.

Quality Certified Certificate of Registration AKG ENGINEERING iraq - Baghda Operates a Quality Management System ISO 9001:2015 Scope of Certific acting, Civil work and construction of buildings, Villas, Houses, Shopping Centres, Industrial Buildings, Hospitals, Schools, Base Camps, Hotels a Infrastructure Projects Related to Roads and Bridges, Site Measureme urveying, Design, Drawings, BOQ, Site Supervision on Subcontractor w CIAF

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## AKG got the certificate of "BEST ENTERPRISE" from EUROPE BUSINESS ASSEMBLY

AKG Engineering Have Got the Certificate of "Best Enterprise "from the Socrates Awards Committee in the EBA - Europe Business Assembly - Oxford - United Kingdom. These ceremony was performed at the imperial stateroom of the world famous HOFBURG, Vienna – Austria.

AKG Engineering has been recognized as one of the "Best Enterprises" in The fields of EPC Turnkey Job Hospitals & Healthcare, Stadiums, Infra-Structure projects Group. As a United Arab Emirates company, it has got this kind of appreciation for its excellent operations in UAE & Iraq.

Dr. Mohammed AL - Khasaky - Chairman & Owner was there in the Europe Business Assembly's New Year Eve highlights Ceremony - Vienna - Austria held on 29 - 30 December 2014, and received the certificate and also he received HONOR OF BADGE (for being the MANAGER OF THE YEAR 2014).



#### Europe Business Assembly Awards Ceremoney

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RAK

Erbil

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# IT Management & Monitoring Hardware & Software to Support the Planning & Scheduling

#### Cost control and monitoring system:

Our Enterprise Resource Planning system (ERP) including Cost control system to observe the current cost levels and compare them with the standard plan for institute corrective action to keep cost within the acceptable bounds.

Displaying the structure of the project in simple and clear manner and necessary reports efficiently generated

It estimate the cost as well as cash in pattern and provided a means to return back to the original estimate by dumping out these deviations through the remaining period of the project.

ludget and Expense Reporting														
Budget: Actual & Porecast: Report														
📲 Compare to Budget. 👘 🍐 Repor	t 🔚 Export C	SV 🖣 AFE	Filter											
IBS Tree ID	Budget	Budget Actual/Forecast							Variance					
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	S -	S-	\$98,537	5-	s -	\$98,537	5-	\$339,358	\$9,058,781	\$7,858,909	\$45,093,923	\$61,150,971	0.00	S

## Cost Control

#### Materials Management and Inventory system:

We have Inventory system included in our Enterprise Resources Planning system (ERP) which is essential to track inventory which is:

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- Multi-user and multi warehouse inventory.
- Support non-stock non-depleting product codes.
- Usage separate product descriptions in invoices, purchase orders and group products in storage location, department and type.
- We can have any kind of report or invoice we need by editable report and invoice template.

## IT Communications System:

Our IT communication system consist of two Local Area Networks (LAN's) and connected all into a Wide Area Network office connected via secure VPN, also centralizing all the required IT services like Email server, FTP server which it can be access from everywhere and web server and protected by two layers firewall, Linux firewall OS and Cisco Router for both networks.

#### Detailed Design and Engineering system:

- Designing and Engineering software's:
   Auto Desk 2012 Building Design suite:
   It's a suite for building designing and drafting, include the following software:
  - AutoCAD Architecture.
  - AutoCAD Electrical.
  - AutoCAD MEP.
  - Autodesk 3ds MAX Design.

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- Planning and Scheduling:
  - Primavera Project planner
  - Primavera
- Live Monitoring System:

We manage our projects 24 hours a day, 7 days a week by specialized monitoring system via full zoom cameras and recording via dedicated high technology facilities designed by our specialized IT team to enable the management and the client to check the live work progress.



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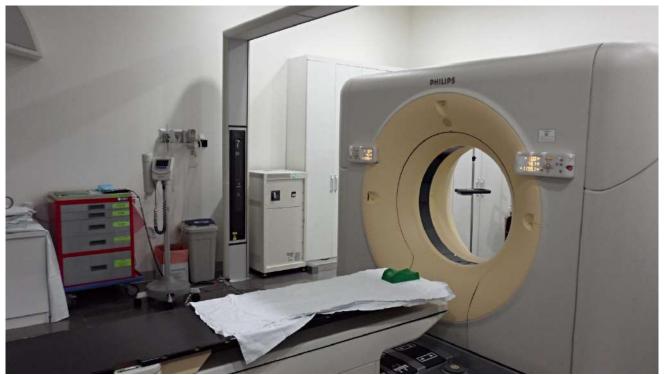
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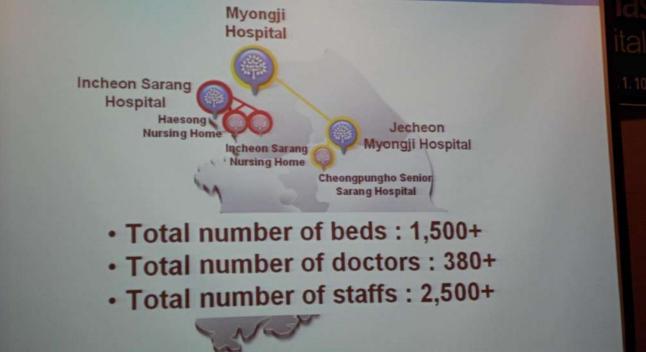
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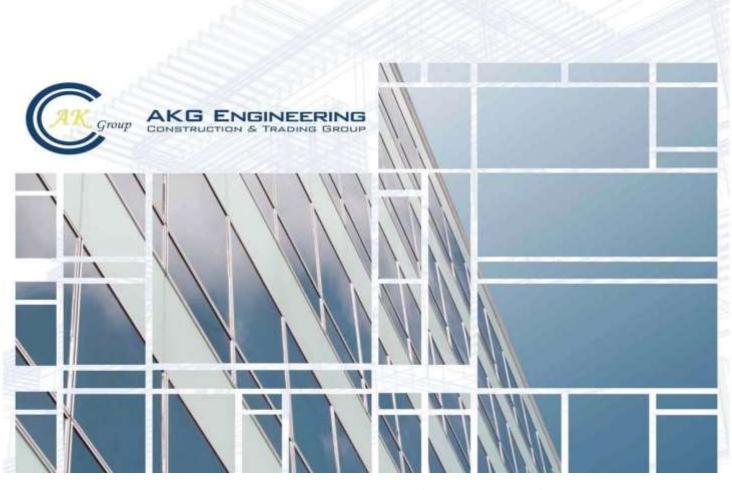




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