TRAGS Engineering

P. O. Box. 470

Jaidah Tower 1st Floor

Doha Qatar

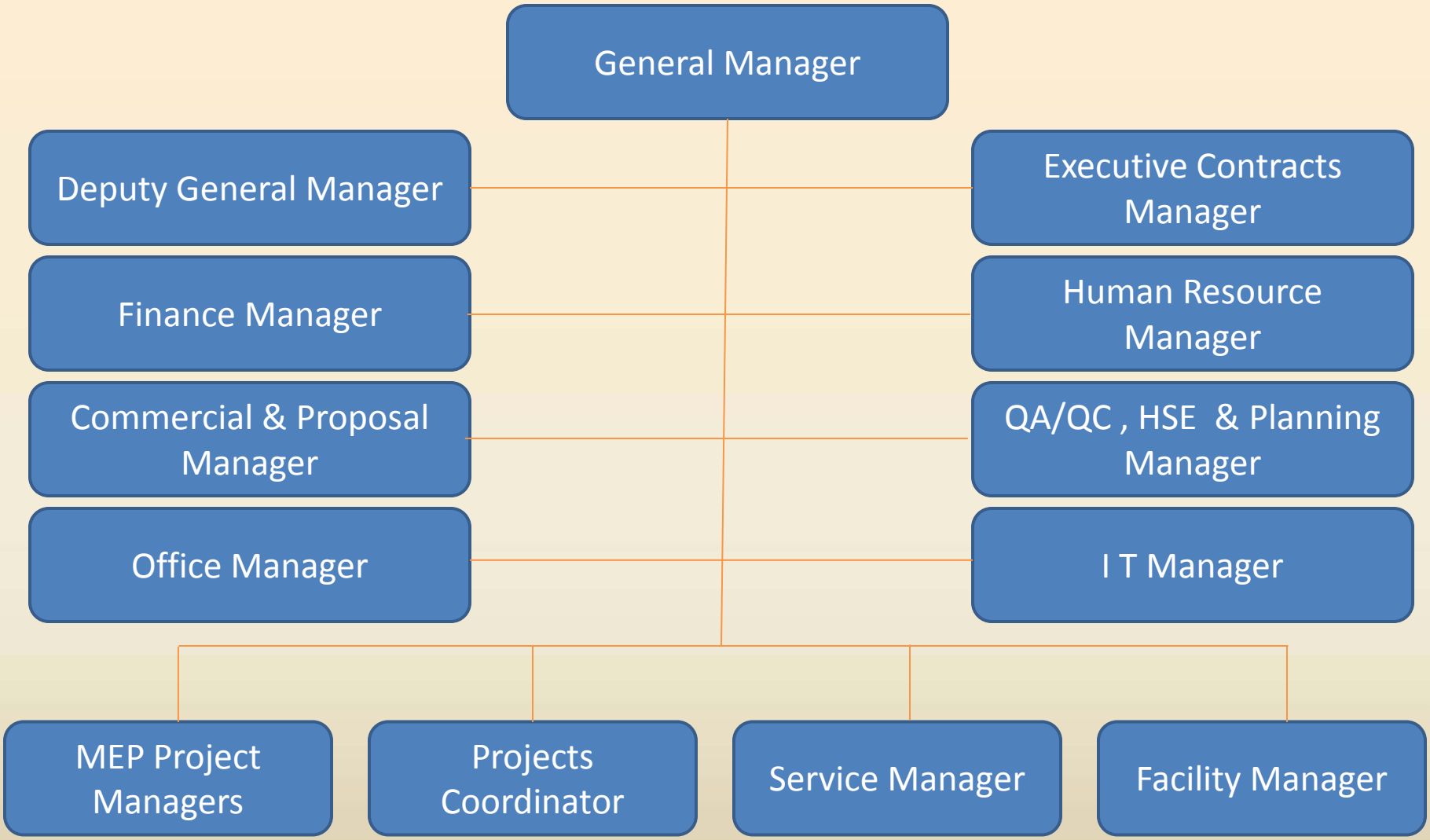
JAIDAH TOWER, DOHA

تراجز للهندسة
TRAGS
ENGINEERING

Who We Are?

- **TRAGS ENGINEERING** was established in 1974 and forms part of **Ensrv Group** which is the energy and engineering arm of the highly respected **J&A Jaidah Holdings**.
- TRAGS is now recognized as the leading MEP Services, District Cooling and Facility Management Contractor in the State of Qatar.
- We are a fully registered and approved Class 'A' Electrical and Mechanical Engineering Contractor with authority to execute major electrical and mechanical installations.
- We are fully registered and approved class 'A' fire alarm and fire fighting systems installation contractor.

Management Organization Chart



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Human Capital – Professional Break down (Staff)

Sr#.	Professional Description	Quantity
1.	Senior Managers	02
2.	Project Executive Managers	02
3.	Project Managers	05
4.	Project Engineers	37
5.	Junior Engineers	08
6.	Supervisors	13
6.	IT Staff	02
7.	HR & Administration	30
8.	Finance	04
9.	Procurement & Expedition	05
10.	CAD Operators	14
11.	Estimation & QS	07
12.	Stores & Other Support Staff	14
	Total	**143**

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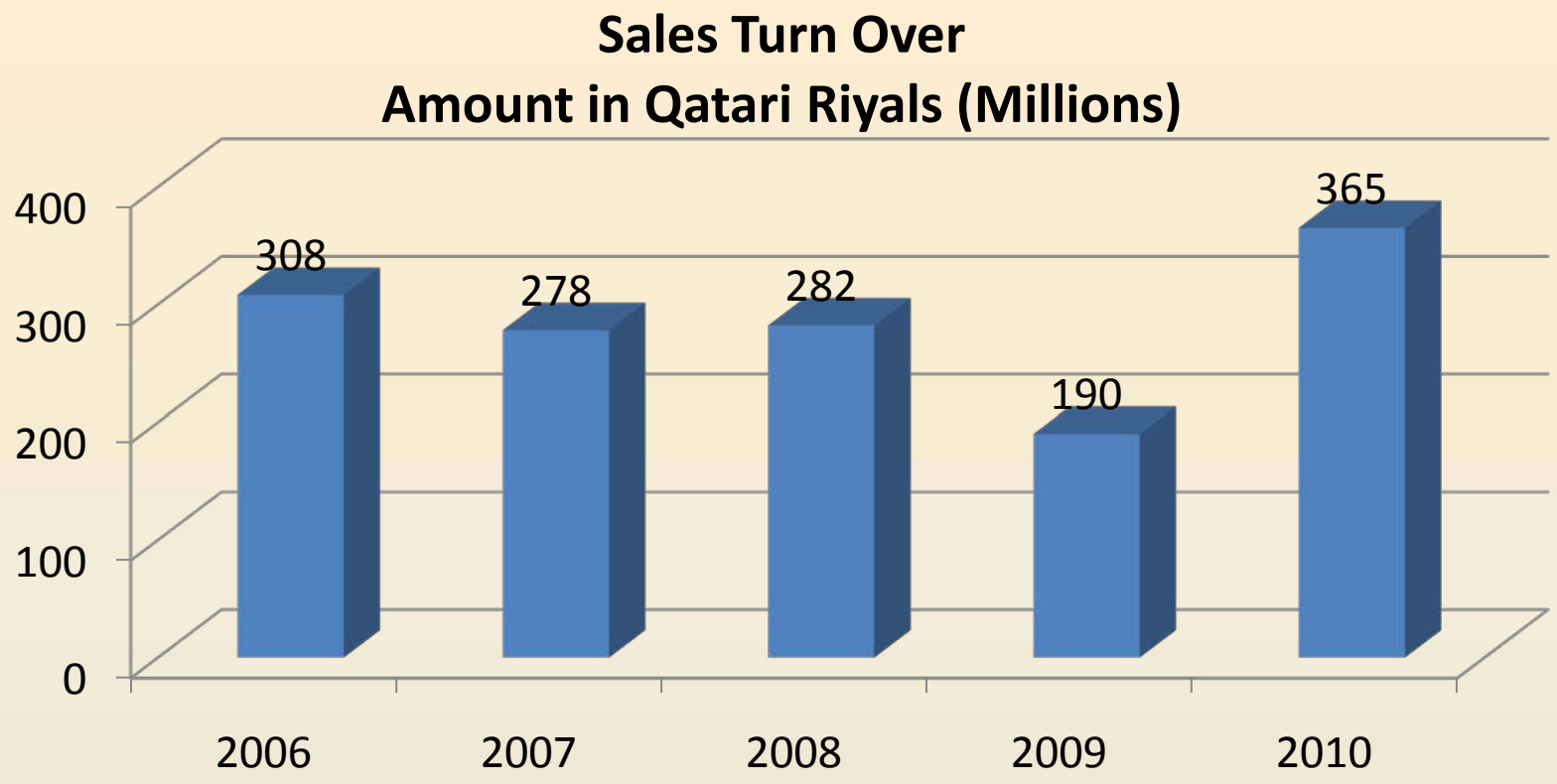
Human Capital – Professional Break down (Labor)

Sr#.	Professional Description	Quantity
1.	Skilled	525
2.	Semi-skilled	475
3.	Labors	682
	Total	**1682**

Financial Status



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Our Bankers

Sr#.	Bank
1.	Commercial Bank
2.	Bank Paribas
3.	HSBC
4.	Standard Chartered
5.	Arab Bank

Our Scope of Activities

- Design
- Engineering
- Procurement
- Installation
- Testing and Commissioning
- Maintenance

Our Scope of Activities

- Electrical
- HVAC
- Mechanical
- Plumbing and Sanitary
- Instrumentation
- Traffic Control Systems

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Our Scope of Activities

- Fire Detection/Protection Systems
- Telecommunications
- Public Address Systems
- CCTV
- Access control
- AV systems

Our Scope of Activities

- Lighting control systems
- Building Management systems
- Facility Management

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24/7 Building Services Maintenance

- Government Department Buildings
- Energy Centers
- Central Plants
- Royal Palaces
- Banks
- Stadiums & Sports facilities
- Office Blocks
- Schools
- Department Stores
- Private Villas

Our Facilities are

- 1200 sq. meters Office block in the Jaidah Tower (wholly owned by the Jaidah Group).
- 1700 sq. meters of enclosed stores Office Blocks
- 850 sq. meters of computerized duct manufacturing and mechanical workshop facilities

Major Projects Executed

Sr#	Project	Year of Completion	Capacity (TONS)
1.	Qatar Foundation – Central Plant 1	2006	11,000
2.	Khalifa Olympic City	2005	12,000
3.	College of North Atlantic Qatar	2007	6,700
4.	Asian Games Village/Hamad Medical City	2005	24,000
5.	Qatar Foundation – Central Plant 2	2009	11,000
6.	Qatar Foundation – Central Plant 4	2009	11,000
7.	QNOC Training Field	2010	12,000
8.	Qatar Foundation – Central Plant 3	2012	40,000
9.	Qatar Foundation – Central Plant 6	2012	40,000
10.	Katara Project Energy Centre & Multilevel Cap Park	2013	27,600
11.	Sheraton Doha Hotel and Conference Centre	1979	4,500

Qatar Foundation – Central Plant 1

10000	The Total Capacity When it's fully Operational

10	The Number of Chillers in the plant with 3300 volt Motor	10	The Number of cooling Towers the plant holds
30	The Number of chilled Water pumps in the plant	16	The Number of 11/3.3 KV Transformers with 1.6 KVA each

The Number of 11KV switchgears with 16 outgoing 1600 amps each

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Khalifa Olympic City – Central Plant

12000	The Total Capacity When it's fully Operational

6	The Number of Chillers in the plant with 415 volt Motor	6	The Number of cooling Towers the plant holds
18	The Number of chilled Water pumps in the plant	18	The Number of 11/0.415 KV Transformers with 1.6 KVA each

The Number of 11KV switchgears with 16 outgoing 1600 amps each

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College of North Atlantic Qatar

3600	The Total Capacity When it's fully Operational

03	The Number of Chillers in the plant with 11000 volt Motor	03	The Number of cooling Towers the plant holds
08	The Number of chilled Water pumps in the plant	02	The Number of 11/0.415 KV Transformers with 1.6 KVA each

The Number of 11KV switchgears with 4 outgoing 1600 amps each

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Asian Games Village/Hamad Medical City – Central Plant

24000	The Total Capacity When it's fully Operational

12	The Number of Chillers in the plant with 6600 volt Motor	12	The Number of cooling Towers the plant holds
36	The Number of chilled Water pumps in the plant	04	The Number of 11/0.415 KV Transformers with 1.6 KVA each

The Number of 11KV switchgears with 14 outgoing 1250 amps each

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Qatar Foundation – Central Plant 2

20000	The Total Capacity When it's fully Operational

11	The Number of Chillers in the plant with 3300 volt Motor	12	The Number of cooling Towers the plant holds
30	The Number of chilled Water pumps in the plant	15	The Number of 11/0.415 KV and 3.3 KV Transformers with 1.6 KVA each

The Number of 11KV switchgears with 15 outgoing 1600 amps each

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Qatar Foundation – Central Plant 4

20000	The Total Capacity When it's fully Operational

11	The Number of Chillers in the plant with 3300 volt Motor	12	The Number of cooling Towers the plant holds
30	The Number of chilled Water pumps in the plant	15	The Number of 11/0.415 KV and 3.3 KV Transformers with 1.6 KVA each

The Number of 11KV switchgears with 15 outgoing 1600 amps each

QNOC Training Field – Central Plant

12000	The Total Capacity When it's fully Operational

06	The Number of Chillers in the plant with 415 volt Motor	06	The Number of cooling Towers the plant holds
18	The Number of chilled Water pumps in the plant	18	The Number of 11/0.415 KV Transformers with 1.6 KVA each

The Number of 11KV switchgears with 18 outgoing 1600 amps each

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Qatar Foundation – Central Plant 3

40000	The Total Capacity When it's fully Operational

20	The Number of Chillers in the plant with 3300 volt Motor	10	The Number of cooling Towers the plant holds
29	The Number of chilled Water pumps in the plant	21	The Number of 11/3.3 KV Transformers with 1.6 KVA each

The Number of 11KV switchgears with 16 outgoing 1600 amps each

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Qatar Foundation – Central Plant 6

40000	The Total Capacity When it's fully Operational

20	The Number of Chillers in the plant with 3300 volt Motor	10	The Number of cooling Towers the plant holds
29	The Number of chilled Water pumps in the plant	21	The Number of 11/3.3 KV Transformers with 1.6 KVA each

The Number of 11KV switchgears with 16 outgoing 1600 amps each

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Katara Project Energy Centre & Multilevel Car Park

27600	The Total Capacity When it's fully Operational

10	The Number of Chillers in the plant with 11000 volt Motor	10	The Number of cooling Towers the plant holds
18	The Number of chilled Water pumps in the plant	08	The Number of 11/0.415 KV Transformers with 1.6 KVA each

The Number of 11KV switchgears with 8 outgoing 1600 amps each

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Sheraton Doha Hotel and Conference Centre

4500	The Total Capacity When it's fully Operational
06	The Number of Chillers in the plant with 415 volt Motor

Special Chillers with sea water cooled condenser having 90 / 10 copper / nickel tubes

Sheraton Doha Hotel and Conference Centre

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W Hotel Doha

J&A JAIDAH HOTEL & APARTMENTS (W HOTEL)

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Al Bida Tower Doha

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City Center Doha

CITY CENTER, DOHA

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HSBC Doha

HSBC BUILDING, DOHA

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Diplomatic Club, Doha

DIPLOMATIC CLUB, WEST BAY, DOHA

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Faisal Tower, Doha

AL-FAISEL TOWER, WEST BAY , DOHA

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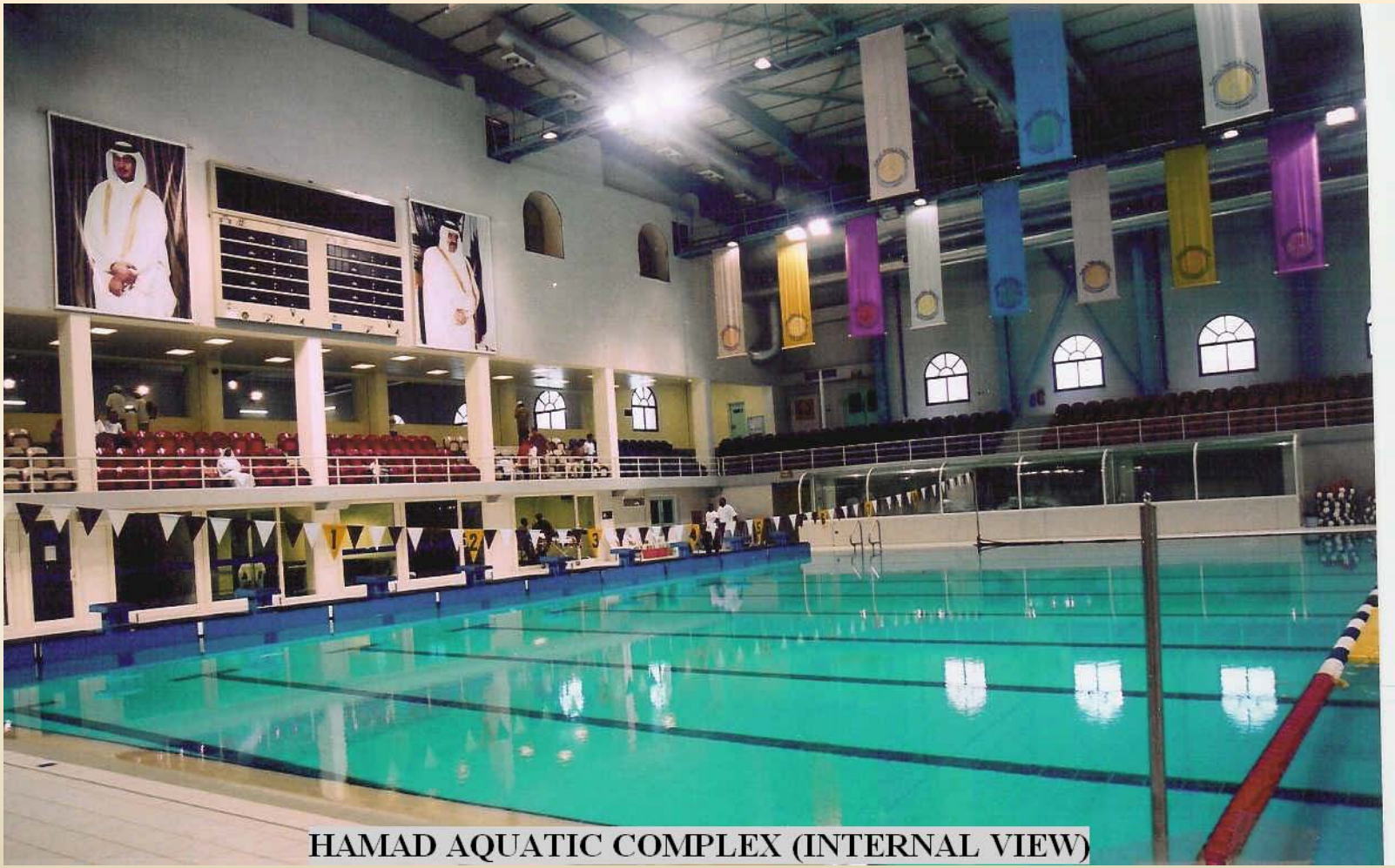
Hamad Aquatic Complex, Doha



HAMAD AQUATIC COMPLEX (INTERNAL VIEW)

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Bilal Suites, Doha

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Al Sulaity Tower, Doha

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Commercial Bank Qatar

Project Safety Plan

- Safety First Priority
- Safety Program Goals
- Safety Policy Statement
- Safety Rules for All Employees
- Accident Free Workplace
- Employee Safety Suggestion Box
- Daily Safety Tool Box Talk

Safety and Environmental Performance

Item No.	DATA	YEAR				
		2006	2007	2008	2009	2010
1. 1	Total Number of Direct Hire Employees	630	762	968	1180	759
1. 2	Total Number of Sub Contractor Employees	0	0	0	0	0
1. 3	Total Man-hours worked (Direct and Sub Contractor Employees)	1,561,100	1,888,188	2,498,642	2,923,965	1,980,753
1. 4	Number of Near-Miss Incidents. (No Damage / Injuries / Delays)	0	0	4	0	3
1. 5	Number of Incidents that caused Damage to Property	0	0	0	0	0
1. 6	Total Number of Environmental Incidents	0	0	0	0	0
1. 7	Number of First Aid Treatment Cases. (Treatment at Site medical facility)	0	0	3	0	1
1. 8	Number of Lost Time Injuries. (unavailable for work at next day/shift)	0	0	2	0	1
1. 9	Number of Fatal Accident Cases.	0	0	0	0	0
1. 10	Accident Frequency Rate SUM (Item 8 + 11) x 200,000 / Total Man-Hours Worked	0	0	0.363	0	0.105
1. 11	Total Number of Environmental, Safety or Health Prosecutions	0	0	0	0	0

LTI Appreciation

CHIYODA CORPORATION

QATARGAS LNG PROJECT
QATAR

By its singular efforts and exertions TRAGS ELECTRICAL ENGINEERING AND AIR CONDITIONING COMPANY W.L.L. has completed its work at the Ras Laffan Project without having sustained any Lost Time Accident. Our congratulations and appreciation are extended for this commendable achievement in the field of Safety.

Date : 14th December 1996

H. MAEJIMA
Project Director

H. KOBAYASHI
Construction Manager

K.NEBASHI
Safety Manager

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LTI Appreciation

ASTAD PROJECT MANAGEMENT

Qatar Petroleum

Qatar Foundation

KEO

CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to

Trags Electrical Engineering & Air Conditioning Company W.L.L.

In recognition of completing 3,000,000 man hours without a Lost Time Incident (LTI) during the construction of

BP#1G-5A – Construction of North Site Central Plants CP3 and CP6 Education City, Doha, Qatar.

Presented this date
January 2011.

Signed on behalf of ASTAD

Signed on behalf of Qatar Foundation

Signed on behalf of KEO