Introduction Letter

KAHROMIKA

MISR CO. FOR MECHANICAL & ELECTRICAL PROJECTS

From 1971 till today, KAHROMIKA has improved itself to be the major electro-mechanical contractor in Egypt, through its extensive participation to most of the projects in the power generation, transmission and distribution. After approximately 40 years of valuable history, KAHROMIKA become today the solution to achieve the formula of success; competitive cost and high quality in the required time. For the previous reasons most of the international companies recommend KAHROMIKA to be their partners in Egypt and Middle East.

The key word of our success is the strategy which aim to client satisfaction, improve the skill level of our staff, increase our market share and participate in new working fields with new partners. In this regards we established some branches in different countries in the zones of Asia and Middle East and we aim to expand our working zones to cover most of Asia and Africa by the end of year 2017.

Based on our roots in the electro-mechanical field we executed in years 2007 to 2010 fifteen power plant packages in parallel with 5,300 direct skilled labors in addition to other projects in different fields. The previous facts focused on our enormous capability to manage and finance such number of projects in the same time. For that KAHROMIKA became the first choice for the **overseas companies.**

Turnkey project execution has always been at the very core of KAHROMIKA construction enterprise.

Our achievements aren't just historical events they are facts resulted by great efforts.

Mohamed Metwalli

Chairman

Company Profile

Misr Co. for Mechanical & Electrical Projects - KAHROMIKA

Your First Choice in Construction of Electro-Mechanical Projects

Historical Brief

KAHROMIKA established in 1971 as a public sector affiliated to the Egyptian Ministry of Electricity and Energy. In 1997 **KAHROMIKA became a private company where AIC Construction Co.** acquired the majority share.

KAHROMIKA established some branches in different countries in Africa (Libya, & Algeria) and Asia (Kuwait, Dubai & Qatar) and installed a gas power plant in Oman.

About Us

KAHROMIKA is the leader contractor for electro-mechanical projects with an impressive track record of construction growth. We continuously strive to provide appropriate solutions to our clients conforming to international quality standards.

Our major activities are in the fields of :

- Power generation plants (thermal, combined cycle, super critical, gas & diesel).
- Substations up to 500 kV (GIS & conventional).
- Overhead transmission lines up to 500 kV.
- Control centers.
- HV Cables.
- MV & LV distribution.
- Pumping stations.
- Wind Farms.
- Industrial projects (sugar, cement, paper, chemical, petroleum & refinery, fertilization plants .. etc.).
- Water and sewage treatment.
- Steel fabrication.

Our Vision

To achieve the client requirements with competitive cost and high quality service, increase our market share, participate in new working fields and expand our working zones to cover most of Asia and Africa**.** Be the leader EPC contractor.

Business Fields

KAHROMIKA enlisted the services of a group of highly qualified engineers, and technicians who had acquired extensive experience. We have executed numerous projects. We are proud to showcase here some of the landmark projects.

I - Power generation plants

KAHROMIKA has been playing a key role through its participation in most power generation projects with capacities up to 2 X 750 MW, which are the largest in the Middle East. The construction scope covered installation of steel structure, boiler, piping (Critical & Non-Critical), HRSG, turbine, generator, condenser, BOP, electrical & instrumentation works.

Steel Structure

Boiler coils

Turbine blades

Critical Piping & valve

II. Power Transmission and distribution

KAHROMIKA achieved high records of projects in that field thanks to high experienced staff and extensive range of equipment which increase the ability of our company to undertake large scale projects.

A – Substations

KAHROMIKA installed more than 125 substations with rating up to 500 kV, our construction scope covered complete civil work, installation of indoor / outdoor switchgears, panels, AC / DC system, cables and control & protection systems.

GIS Substation

Conventional Substation

B - Overhead transmission Lines

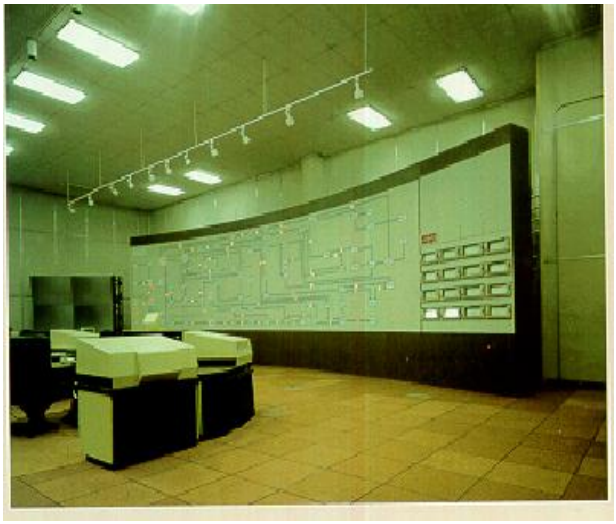
Ultra and high voltage transmission lines are part of our major activities. As a sign of our success and our strong presence in the field we proudly established more than 1,845 km of 66 kV, 3,853 km of 220 kV, 795 km of 500 kV and still 285 km of 500kV are in progress.

kV Single Circuit Tower

220 kV Double Circuit Tower

C - Control Centers and Protection Projects

We have designed and executed the National Energy Control Center, to interconnect the 500 & 220 KV networks for more than 46 power stations and substations. Also we established many of the local control centers.
We have undertaken the protection system projects for 500 KV network to the various substations.



National Energy Control Center (NECC)

Power Station Control Center

D – HV Cables

We executed more than 1000 km of HV cables including 20 km marine cables and another 20 km with horizontal direction drilling.

220 kV Cable Pulling

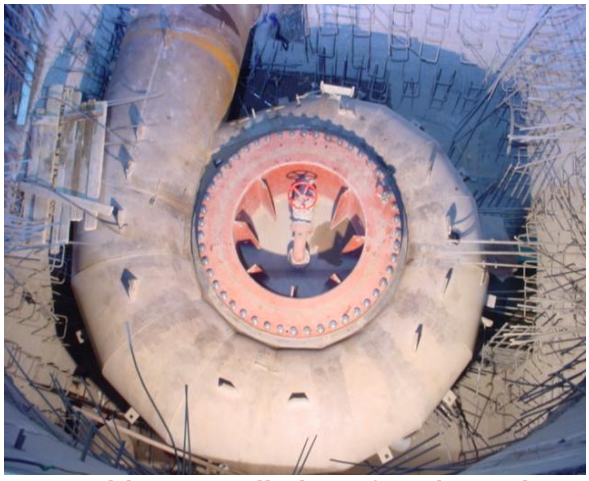
E – MV & LV Distribution

Most of the main MV & LV distribution grid were done by KAHROMIKA. We have six local branches to cover all over Egypt.

III – Pumping Stations

Toshka pumping station is one of the most important bench marks in our success track. It is the biggest pumping station all over the world. **KAHROMIKA** was recommended by owner and main contractors as " the only solution to carry out the mechanical & electrical works ". We completed the assembly of 21 pumps (16.7 m^3/sec each) and 21 motors (12 MW each) nine months earlier and fabrication of suction pipe & elbow four months earlier than original schedule. Our engineers suggested to HITACHI many things facilitated the assembly of sealing parts and tools.

Assembly & Installation of pump rotating part



Assembly & Installation of casing volute

IV – Industrial Projects

KAHROMIKA expertise was enhanced by the physical resources and highly skilled workforce enabling us to undertake the installation and rehabilitation works in many industrial projects such as sugar, cement, paper, chemical factories, petroleum & refinery, fertilization plants, etc.

V. Steel Fabrication

Steel fabrication is one of **Kahromika**'s main activities. The fabrication area is 34,000 m^2 with covered fabrication shop of 12,000 m^2 and 7000 m^2 as operating space. The annual fabrication capacity is 10,000 Metric Ton.
The fabrication scope includes:

- Steel structures and assemblies.
- Platforms, stairways, pipe racks, supports and hangers.
- Circulation water piping (Up to 3 m. diameter and 20 mm. thickness).
- High & low pressure pipelines.
- Pipelines for storage tanks (Oil, Fuel).
- Process equipment for industrial plants, metering stations, and pig trap stations.
- Air and gas ducts for power stations.
- M.V / LV transmission line towers.

Safety

Safety always has the priority at **KAHROMIKA**'s projects. We have a proven track record in safety.

Last three years (2008 – 2010)
We completed 46,000,000 man-hour
Without any major accident

Quality

KAHROMIKA's management is committed to continuously improve the quality of the services provided to meet the customer's requirements and expectations.
Our mission is to :

Achieve zero defects
For total customer satisfaction

To proven this mission our QA / QC teams worked deeply and involved at every minor execution stage.

Now **KAHROMIKA** has eight international certifications:

- ISO 9001- 2008
- ISO 14001 – 2004
- OHSAS 18001 - 2007
- ASME - A
- ASME - P
- ASME – S
- ASME – U
- The National Board of Boiler & Pressure Vessel Inspector - R

Equipment

KAHROMIKA has enormous number of most modern equipments to match with the projects requirements.

Contact Information

Headquarters Contact Persons

- Youssef Harby (Managing Director) Tel : +2 02 37615394 / 549
- Tarek Sayed Ali (Chief Sectors, Tendering & Tech. Affaires) Tel : +2 02 37488187
- Mohamed Barhoma (Construction Manager) Tel : +2 02 37487907
- Shadia Adly (Procurement Manager) Tel.: +2 02 37603039

Address

3 El-Sololy St. Kahromika Building, Dokki, Giza, Egypt.

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Tel.: +2 02 3748 5154 / 3748 6488 / 3760 3039
Fax: +2 02 3748 8201

E-mail : ceo@kahromika-co.com & tendering@kahromika-co.com

Web site : www.kahromika-co.com

Our Branches Information

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Fax : +20 (2) 48249404 – 48259542 Email : mostorod@kahromika-co.com

Libya Branch

Ahmed Abd El Fatah (Branch Manager)
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Kuwait Branch

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Dubai Branch

Ibrahim Abdul Salam (Act Branch Manager)
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E-mail: dubai@kahromika-co.com

Sudan Branch

Temporary Hold

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ISO & ASME Certificates

Certificate EG10/2692

The management system of

Misr Company for Mechanical and Electrical Projects - KAHROMIKA

3 El-Selouly Street, Dokki, Giza, Egypt

has been assessed and certified as meeting the requirements of

ISO 9001:2008

For the following activities

1- Installation, Erection and Maintenance of:
- Power Plants.
- Substations.
- Industrial Projects.
- Electrical Networks.
- Over Head Ultra and High Voltage Transmission Lines.
- Telecommunication and Control Network.

2- Fabrication of Steel Structure & Sheet Metal Work.

3- Maintenance of Heavy & Light Duty Equipment.

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organization

This certificate is valid from 12 October 2010 until 12 October 2013
and remains valid subject to satisfactory surveillance audits
Re certification audit due before 28 September 2013
Issue 1. Certified since 09 June 1998

Authorised by

SGS United Kingdom Ltd Systems & Services Certification
Rossmore Business Park Ellesmere Port Cheshire CH65 3EN UK
t +44 (0)151 350-6666 f +44 (0)151 350-6600 www.sgs.com

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Certificate CH07/0814

The management system of

Misr Company For Mechanical and Electrical Projects – KAHROMIKA

3 El – Selouly Street, Dokki , Giza, Egypt

has been assessed and certified as meeting the requirements of

OHSAS 18001:2007

For the following activities

Installation, Erection and Maintenance of Power Plants, Substations, Industrial Projects and Electrical Networks. Over Head Ultra and High Voltage Transmission Lines, Telecommunication and Control Network, Maintenance of Heavy & Light Duty Equipment.

This certificate is valid from 14 August 2010 until 13 August 2013
and remains valid subject to satisfactory surveillance audits
Recertification audit due before 1 August 2013
Issue 3. Certified since August 2007

Authorised by

SGS Société Générale de Surveillance SA Systems & Services Certification
Technoparkstrasse 1 8005 Zurich Switzerland
t +41 (0)44 445-16-80 f +41 (0)44 445-16-88 www.sgs.com

Accreditation No. SCESm 017

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CERTIFICATE OF AUTHORIZATION

The American Society of Mechanical Engineers

This certificate certifies the named company as authorized to use the indicated symbol of the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the Code symbol and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this symbol shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Misr Company for Mechanical and Electrical Projects (KAHROMIKA)
Terat El-Ismaliah, St., Mostorod
El-Qalyubiya
Egypt

SCOPE:

Fabrication and assembly of pressure piping at field sites controlled by the above location

AUTHORIZED:	**February 9, 2011**
EXPIRES:	**February 9, 2014**
CERTIFICATE NUMBER:	**31,836**

Vice President
Conformity Assessment

Director, Accreditation and Certification

CERTIFICATE OF AUTHORIZATION

This certificate certifies the named company as authorized to use the indicated symbol of the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the Code symbol and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this symbol shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Misr Company for Mechanical and Electrical Projects (KAHROMIKA)
Terat El-Ismaliah, St., Mostorod
El-Qalyubiya
Egypt

SCOPE:

Manufacture of boiler parts at the above location and field sites controlled by the above location

AUTHORIZED:	**February 9, 2011**
EXPIRES:	**February 9, 2014**
CERTIFICATE NUMBER:	**40,373**

Vice President
Conformity Assessment

Director, Accreditation and Certification

The American Society of Mechanical Engineers

CERTIFICATE OF AUTHORIZATION

The American Society of Mechanical Engineers

This certificate certifies the named company as authorized to use the indicated symbol of the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the Code symbol and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this symbol shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Misr Company for Mechanical and Electrical Projects (KAHROMIKA)
Terat El-Ismaliah, St., Mostorod
El-Qalyubiya
Egypt

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED:	**February 9, 2011**
EXPIRES:	**February 9, 2014**
CERTIFICATE NUMBER:	**40,374**

Vice President
Conformity Assessment

Director, Accreditation and Certification

Certificate EG10/2307

The management system of

Misr Company for Mechanical and Electrical Projects - KAHROMIKA

3 El-Selouly Street, Dokki, Giza, Egypt

has been assessed and certified as meeting the requirements of

ISO 14001:2004

For the following activities

1- Installation, Erection and Maintenance of:
- Power Plants.
- Substations.
- Industrial Projects.
- Electrical Networks.
- Over Head Ultra and High Voltage Transmission Lines.
- Telecommunication and Control Network.

2- Maintenance of Heavy & Light Duty Equipment.

This certificate is valid from 18 August 2012 until 18 August 2015 and remains valid subject to satisfactory surveillance audits.
Re certification audit due before 13 August 2015
Issue 2. Certified since 18 August 2009

Authorised by

UKAS MANAGEMENT SYSTEMS
005

SGS United Kingdom Ltd Systems & Services Certification
Rossmore Business Park Ellesmere Port Cheshire CH65 3EN UK
t +44 (0)151 350-6666 f +44 (0)151 350-6600 www.sgs.com

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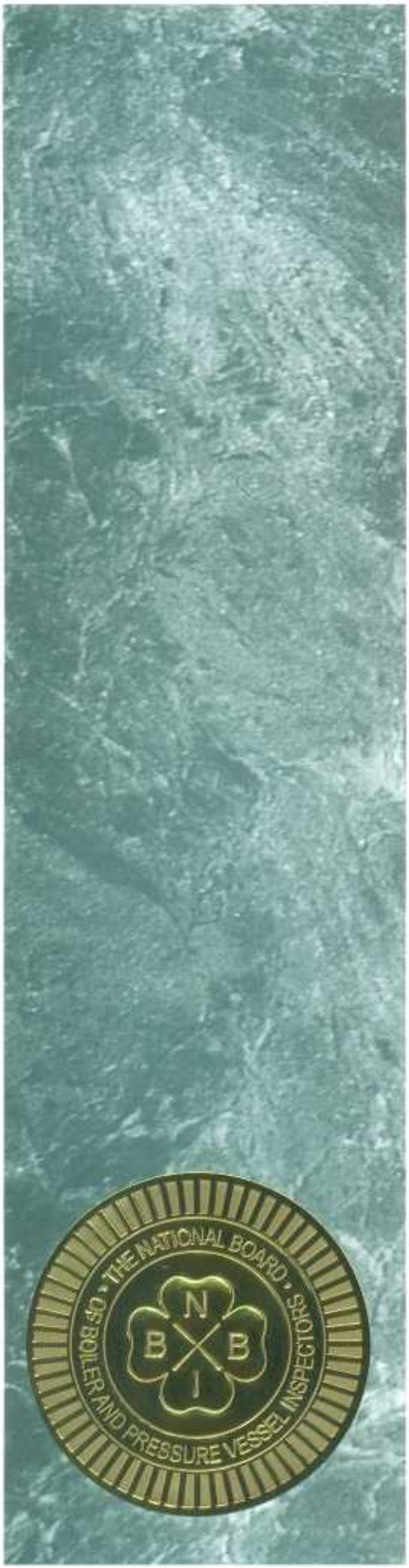


THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS

Certificate of Authorization

This is to certify that

MISR COMPANY FOR MECHANICAL AND ELECTRICAL PROJECTS (KAHROMIKA)
TERAT EL-ISMALIAH ST., MOSTOROD
EL-QALYUBIA,
EGYPT

is authorized to use the "R" SYMBOL in accordance with the provisions of the National Board.

The scope of Authorization is limited as follows:

METALLIC REPAIRS AND/OR ALTERATIONS AT THE ABOVE LOCATION AND EXTENDED FOR FIELD REPAIRS AND/OR ALTERATIONS CONTROLLED BY THIS LOCATION

CERTIFICATE NUMBER: R-8327

ISSUE DATE: FEBRUARY 23, 2011

EXPIRATION DATE: FEBRUARY 9, 2014

Executive Director

NB 243 Rev. 4

MITSUBISHI HEAVY INDUSTRIES, LTD.

POWER SYSTEMS HEADQUARTERS

TAKASAGO MACHINERY WORKS

Certificate for Authorization and Registration

To Messrs. Misr Company for Mechanical and Electrical Plojects Kahromika

This is to certify and notify that Messrs. Misr Company for Mechanical and Electrical Plojects Kahromika have successfully passed the evaluation on their quality assurance ability performed by Mitsubishi Heavy Industries, Ltd. Takasago Machinery Works (MHI) on the basis of MHI's quality assurance requirements and have been approved by MHI to satisfactorily possess the ability of the required quality assurance and been registered as such.

Address : 3El Solouly St., Dokki, Giza, Egypt

Scope : Installation of Power Stations, Industrial Factories, Substation, Overhead Transmission Lines, Cables and network

Date of Validity : From 7 December 2010 to 31 December 2013

Date of Authorization : 7 December 2010

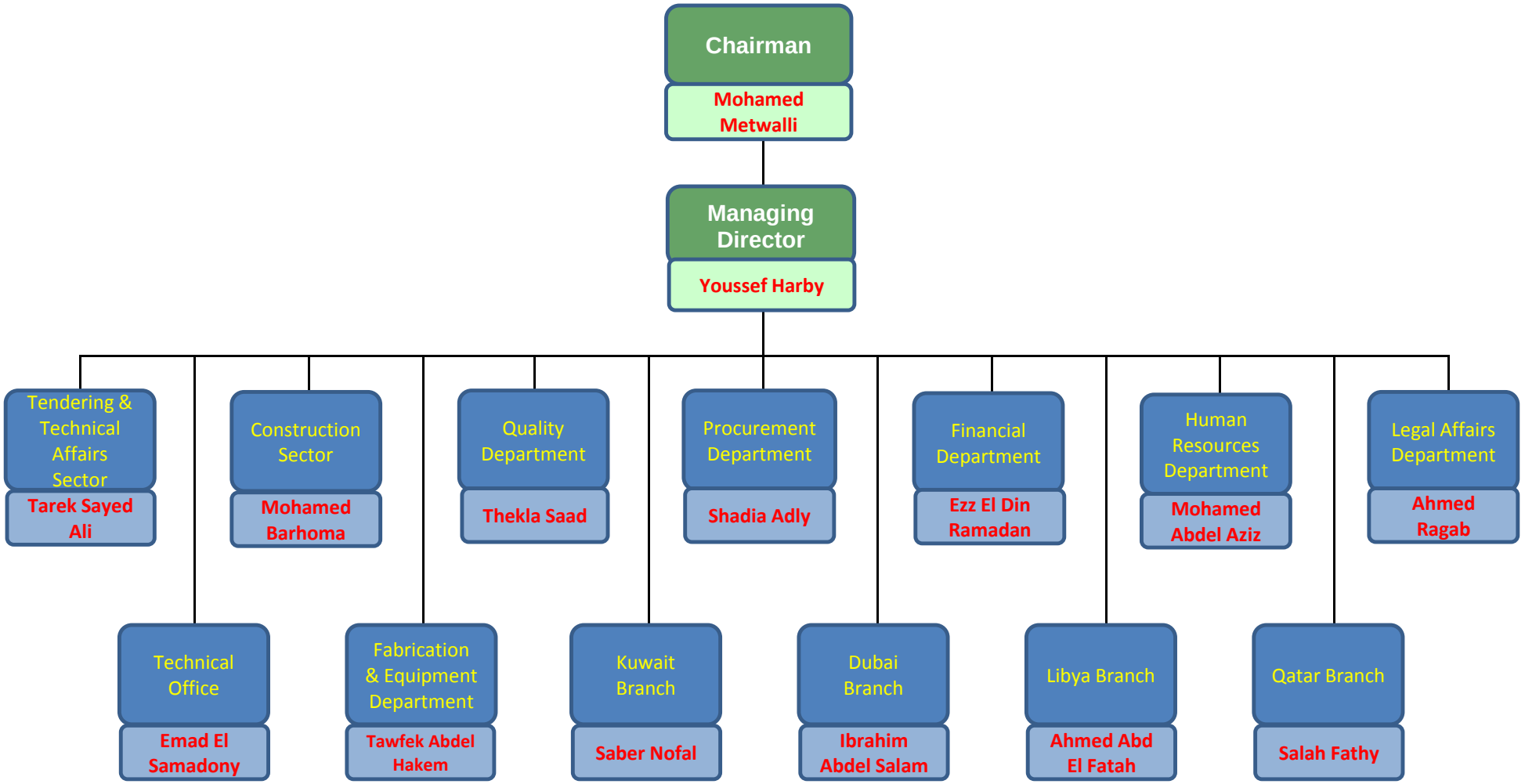
Authorized by :

S.INOUE General Manager,
Quality Assurance Department
Takasago Machinery Works
Power Systems Headquarters
Mitsubishi Heavy Industries, Ltd.

Company Organization Chart

Misr Co. for Mechanical & Electrical Projects
" KAHROMIKA "

Company Organization Chart



Past Experience
&
Client Certificates

Power Station Projects

Major Current Power Plant Projects

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
1	**Suez Thermal Power Plant 1×650 MW** 1-1- Mechanical installation of boiler (CP105)	EDEPC	ANSALDO	- Complete Installation of one Boiler and Auxiliaries	2015
	1-2- Mechanical and E&I installation of steam turbine (CP106)		ALSTOM	- Complete Installation of one STG and Auxiliaries	2015
2	**Giza North Combined Cycle 1×750 MW** Combined Cycle (Module 3)	CEPC	SEPCOIII	- Complete installation of 4×250 MW gas turbine - Electrical & Mechanical works.	2014
3	**Giza North Combined Cycle 2×750 MW** Gas Turbine (4x250 MW)	CEPC	SEPCOIII	- Complete installation of 4×250 MW gas turbine - Electrical & Mechanical works.	2013
4	**El-Sokhna Thermal Power Plant 2×650 MW** Mechanical installation of boiler no.1 (CP-105)	EDEPC	DOOSAN	- Complete Installation of one Boiler and Auxiliaries	2013

THERMAL POWER PROJECTS

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
1	**Cairo West-Thermal Power Plant 2×350 MW**				
	1-1- 2 Boilers CP-105	CEPC	SUMITOMO / BABCOCK HITACHI	- Complete Installation of Two Boilers and Auxiliaries	2011
	1-2- Electrical Package CP-117	CEPC	INITEC	- Installation of Electrical Equipment & Cables, Cable Trays, Transformers,….etc - Local Supply of Cables, Cable Trays, Conduits, Supports,…..etc	2011
	1-3- Mechanical Package CP-118	CEPC	INITEC	- Installation of Mechanical Equipment and Piping - Local Supply of HVAC, Shop Fabricated Tanks, Gases, Cables, Cable Trays, Pipe Supports, Auxiliary Steel,…etc	2011
	1-4- Steam Turbine CP-106	CEPC	TOYOTA / MHI	- Installation of Two Steam Turbine 2*350 MW, 2 Generators, 2 Condencers and Auxiliaries	2010
2	**El-Tebbine Thermal Power Plant 2×350 MW**				
	2-1- Electrical Package CP-117	CEPC	INITEC	- Complete Installation of Electrical Equipment, Cables, Instrumentation,…….etc - Local Supply of MV Cable, Control Cable, Cable Trays, Conduits, Grounding,….etc	2010
	2-2- Mechanical Package CP-118	CEPC	INITEC	- Installation of Mechanical Equipment and Piping - Local Supply of HVAC, Shop Fabricated Tanks, Gases, Cables, Cable Trays, Pipe Supports, Auxiliary Steel,..etc	2010
	2-3- Steam Turbine CP-106	CEPC	Alstom/Initec	- Complete Installation of Two Steam Turbine, Generators, Condencers and Auxiliaries - Local Supply	2010
3	Sidi Krir Power Plant 2 x 325 M.W. Boiler, Turbine, B.O.P.	INTERGEN	BECHTEL-KAHROMIKA	Erection of steel structure of boilers, erection of turbine,erection of B.O.P., critical and non critical piping, fuel oil tanks, water treatments	2002

THERMAL POWER PROJECTS

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
4	Ayoun Moussa P.P. 2 X 320 M.W.	EEA	CIMI MANTOUBI-KAHROMIKA	Engineering, Supply, Fabrication and Erection of air & gas duct and boilers casing	2000
5	Ayoun Moussa P.P. 2 X 320 M.W. Installation of B.O.P.	EEA	Consortium SKODA-KAHROMIKA	Supply and Erection of B.O.P.	2000
6	El- Kureimat P.P. 2 X 600 M.W.	EEA	CIMI MANTOUBI-KAHROMIKA	Supply, Fabrication and Erection of air and gas duct of boilers	1997
7	El- Kureimat P.P. 2 X 600 M.W.	EEA	Consortium SAE SADELMI - KAHROMIKA	Erection of B.O.P.	1996
8	Assuit Power Plant unit no 2 - 1X325 M.W	EEA	Consortium SAE-SADELMI - KAHROMIKA	Erection of Boiler	1995
9	El- Arish Power Plant 2X30 M.W.	EEA	BAHARAT-KAHROMIKA	Erection of Boiler	1994
10	Cairo West P.P. of unit 5 & 6 of 2x325 M.W.	EEA	SAE -SADELMI-KAHROMIKA	Erection of the non cr. Parts. & B.O.P. & Ins.	1994
11	Talkha Power Plant 2 X 210 M. W	EEA	Consortium SKODA - KAHROMIKA	Turnkey Job	1989
12	Abou-Qir Thermal Power Plant Unit 5 - 1 X 325 M.W	EEA	Stein Industry France - KAHROMIKA	- Boiler Erection - Turbine & Gen. Erection	1989
13	Cairo West Power Plant Unit 4 1X87.5.MW	EEA	B.& W And Westinghouse- KAHROMIKA	Turnkey Job	1979
14	**Kafr El-Dawar Power Plant:** 14-1- First stage 2 units 2X110 M.W	EEA	Consortium SKODA-KAHROMIKA	Turnkey Job	1978
	14-2- Second stage an Other 2 units 2 X 110 M.W				1983

COMBINED CYCLE PROJECTS

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
1	**El-Nubaria III Combined Cycle 1×750 MW**				
	1-1- Steam Turbine 1x750 MW CP-106	WDEPC	ALSTOM-INITEC	- Complete Installation of one Steam Turbine, Generators, Condencers and Auxiliaries - Local Supply	2010
	1-2- Mechanical Package CP-118	WDEPC	INITEC	- Installation of mechanical equipment and piping. - Local supply of HVAC, shop fabricated tanks, gases, cables, cable trays, pipe supports, auxiliary steel, … etc.	2010
2	**El-Kureimat III Combined Cycle 1×750 MW**				
	2-1- Steam Turbine 1x250 MW CP-106	NUEEPC	ALSTOM/INITEC	- Installation of 1x750 MW Steam Turbine & Generator and Auxiliaries - Local Supply of Shop Fabricated Tanks, Gases, Cables, Cable Trays, Pipe Supports, Auxiliary Steel,…..	2010
	2-2- BOP-of HRSG CP-105	NUEEPC	INITEC	- Installation of BOP Mechanical and Electrical - Local Supply	2010
3	**El-Atf Combined Cycle 1×750 MW**				
	3-1- Mechanical Package CP-118	MDEPC	TOSHIBA PLANT	Installation of Mechanical Equipment and Piping	2010
	3-2- Electrical Package CP-117	MDEPC	TOSHIBA PLANT	Installation of Electrical Equipment and Cables & Cable Trays & Conduits	2010
4	New Talkha-Combined Cycle 1*750 M.W CP 106	EDEPC	ALSTOM-INITEC	Steam Turbine & Auxiliary BOP Mechanical & Electrical	2008
5	New Talkha-Combined Cycle 1*750 M.W CP 105	EDEPC	SKODA	HRSG-BOP Mechanical & Electrical	2008
6	El Kureimat II-Combined Cycle 1*750 M.W CP 105	NUEEPC	SKODA	HRSG-BOP Mechanical & Electrical	2008
7	Cairo North II-Combined Cycle 1*750 M.W CP 106	CEPC	ALSTOM-INITEC	Steam Turbine & Auxiliary BOP Mechanical & Electrical	2007
8	Nubaria I,II-Combined Cycle 2*750 M.W CP 118	WDEPC	INITEC	EPC of Mechanical Equipment & Auxiliary	2006
9	Nubaria I,II-Combined Cycle 2*750 M.W CP 117	WDEPC	INITEC	EPC of Electrical Equipment and Cables	2006
10	Nubaria I,II-Combined Cycle 2*750 M.W CP 106	WDEPC	TOMEN-MHI	Steam Turbine & Auxiliary	2006
11	Cairo North I-Combined Cycle 1*750 M.W CP 118	CEPC	INITEC	EPC of Mechanical Equipment and Auxiliary	2005
12	Cairo South Power Plant Unit 1,5,8 4 x 30 M.W.	EEA	IEMSA ITALY-KAHROMIKA	Heat Recovery Steam Generators	1996
13	Damietta 3 x 145 M.W.	EEA	GEC-ALSTOM (Ratue co.)-KAHROMIKA	Steam Turbine Heat Recovery Steam Generators	1994
14	El-Mahmodia Unit 1 : 8 8 x 30 M.W.	EEA	CIMI MANTOUBI-KAHROMIKA	Heat Recovery Steam Generators	1994
15	Damanhour Unit 1,2,3,4 4 x 30 M.W.	EEA	CIMI MANTOUBI-KAHROMIKA	Heat Recovery Steam Generators	1994

GAS TURBINE PROJECTS

S/N	Project	Location	Owner	Manufacturer Company	Completion Date
1	**El-Shabab 1000 MW Simple Cycle Gas Turbine units** Gas Turbine CP-101 (8 x 125 MW)	Ismaelia	ECPC	GE	2011
2	Sidi Krir 2×250 MW CP 101	Alex.-EGYPT	WDEPC	Mitsubishi Heavy Industrial	2009
3	El-Atf 2×250 MW CP 101	Behira-EGYPT	MDEPC	Mitsubishi Heavy Industrial	2009
4	EL Sheikh Zowayed	South Sinae-EGYPT	EEA	Western Engine-U.S.A.	1996
5	El Dekhila City	Dekhila City-EGYPT	EEA	Western Engine-U.S.A.	1995
6	Sharm El-Sheikh G.T.2X25 MW	Sharm El-Sheikh-EGYPT	EEA	Alstom	1992
7	Kafr El-Dawar G.T.5 MW	Alex.-EGYPT	EEA	Habato Siyoza	1992
8	Marsa Matrouh G.T. 2X12 MW	Marsa Matrouh-EGYPT	EEA	Alstom	1989
9	Marina El-Alameen 2X20 MW	Alex.-EGYPT	EEA	Western Engine-U.S.A.	1989
10	Sadat G.T 2 Units 2X15 MW	Sadat City-EGYPT	EEA	Habato Siyoza	1989
11	Heliopolis 3X12.5 MW	Cairo-EGYPT	EEA	Westinghouse	1981
12	El-Siuf G.T 1X25 MW	Alex.-EGYPT	EEA	Astal Laval	1980
13	Karmouz G.T.2X212.5 MW	Alex.-EGYPT	EEA	Astal Laval	1980
14	Cairo North G.T.1X20 MW	Cairo-EGYPT	EEA	G E	1980
15	Cairo East 2X 20 M	Cairo-EGYPT	EEA	G E	1979
16	Ismaelia G.T 1X20 MW	Ismaelia-EGYPT	EEA	G E	1977
17	Suez G.T - 1X15 MW	Suez Gulf-EGYPT	EEA	Westinghouse	1976

GAS TURBINE PROJECTS

S/N	Project	Location	Owner	Manufacturer Company	Completion Date
1	**El-Shabab 1000 MW Simple Cycle Gas Turbine units** Gas Turbine CP-101 (8 x 125 MW)	Ismaelia	ECPC	GE	2011
2	Sidi Krir 2×250 MW CP 101	Alex.-EGYPT	WDEPC	Mitsubishi Heavy Industrial	2009
3	El-Atf 2×250 MW CP 101	Behira-EGYPT	MDEPC	Mitsubishi Heavy Industrial	2009
4	EL Sheikh Zowayed	South Sinae-EGYPT	EEA	Western Engine-U.S.A.	1996
5	El Dekhila City	Dekhila City-EGYPT	EEA	Western Engine-U.S.A.	1995
6	Sharm El-Sheikh G.T.2X25 MW	Sharm El-Sheikh-EGYPT	EEA	Alstom	1992
7	Kafr El-Dawar G.T.5 MW	Alex.-EGYPT	EEA	Habato Siyoza	1992
8	Marsa Matrouh G.T. 2X12 MW	Marsa Matrouh-EGYPT	EEA	Alstom	1989
9	Marina El-Alameen 2X20 MW	Alex.-EGYPT	EEA	Western Engine-U.S.A.	1989
10	Sadat G.T 2 Units 2X15 MW	Sadat City-EGYPT	EEA	Habato Siyoza	1989
11	Heliopolis 3X12.5 MW	Cairo-EGYPT	EEA	Westinghouse	1981
12	El-Siuf G.T 1X25 MW	Alex.-EGYPT	EEA	Astal Laval	1980
13	Karmouz G.T.2X212.5 MW	Alex.-EGYPT	EEA	Astal Laval	1980
14	Cairo North G.T.1X20 MW	Cairo-EGYPT	EEA	G E	1980
15	Cairo East 2X 20 M	Cairo-EGYPT	EEA	G E	1979
16	Ismaelia G.T 1X20 MW	Ismaelia-EGYPT	EEA	G E	1977
17	Suez G.T - 1X15 MW	Suez Gulf-EGYPT	EEA	Westinghouse	1976

STEAM TURBINE PROJECTS

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
1	**Abu Quir Thermal Power Plant 2×650 MW** Steam Turbine CP-106 (2x650 MW)	WDEPC	TTC / MHI	- Installation of Two Steam Turbine 2×650 MW, 2 Generators, 4 Condencers and Auxiliaries	2012
2	**El-Kurimat III Combined Cycle 1×750 M.W.** Steam Turbine 1*250 M.W. - CP 106	NUEEPC	ALSTOM	- Complete installation of Steam Turbine & Generator, Condencer and Auxiliaries. - Local Supply of Shop Fabricated Tanks, Gases, Cables, Cable Trays, Pipe Supports, Auxiliary Steel,….etc	2010
3	**Cairo West-Thermal Power Plant 2×350 M.W.** Steam Turbine 2×350 M.W. - CP 106	CEPC	TTC / MHI	- Complete installation of 2 Steam Turbine, 2 Generators, 2 Condencers and Auxiliaries.	2010
4	**El-Tebbin Thermal Power Plant 2×350 M.W.** Steam Turbine 2×350 M.W. - CP 106	CEPC	ALSTOM	- Complete installation of 2 Steam Turbine, Generators, Condencers and Auxiliaries. - Local Supply.	2010
5	**El-Nubaria III Combined Cycle 1×750 M.W.** Steam Turbine 1x250 MW CP-106	WDEPC	ALSTOM	- Complete installation of 1 Steam Turbine, Generators, Condencers and - Local Supply.	2010
6	**New Talkha Combined Cycle 1×750 M.W.** Steam Turbine 1*250 MW CP-106 1*250 M.W.	EDEPC	ALSTOM	- Complete Installation of Steam Turbine, Generator, Condencer and Auxiliaries. - Local Supply.	2008
7	**Cairo North II Combined Cycle 1×750 M.W.** Steam Turbine 1*250 MW - CP 106	CEPC	ALSTOM	- Complete Installation of Steam Turbine, Generator, Condencer and Auxiliaries. - Local Supply	2007
8	**El-Nubaria II Combined Cycle 2×750 M.W.** Steam Turbine 2*250 M.W.	WDEPC	TOMEN-MHI	- Complete installation of 2 Steam Turbine, 2 Generators & 2 Condencers & Auxiliary installation. - Local supply.	2006
9	**Sidi Krir Power Plant 2 x 325 M.W.** Steam Turbine 2*325 M.W.	INTERGEN	BECHTEL	- Complete installation of 2 Steam Turbine, 2 Generators, 2 Condencers & Auxiliary installation.	2002

STEAM TURBINE PROJECTS

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
10	**Talkha 2×210 M.W.** Steam Turbine 2*210 M.W.	EEA	Consortium SKODA-KAHROMIKA	- Turnkey Job of all plant.	1994
11	**Damietta 3 x 145 M.W.** Steam Turbine 3×145 M.W	EEA	GEC-ALSTOM (Ratue co.)-KAHROMIKA	- Complete installation of 3 Steam Turbine, Generators & Condencers & Auxiliary.	1994
12	**Abu Quir Thermal Power Plant Unit 5 - 1 X 325 M.W.** Steam Turbine 1×325 M.W.	EEA	Stein Industry France-KAHROMIKA	- Complete installation of 1 Steam Turbine, 1 Generator, 1 Condencer & Auxiliary installation.	1989
13	**Kafr El-Dawar Power Plant** -Second stage an Other 2 units 2 X 110 M.W.	EEA	Consortium SKODA-KAHROMIKA	- Turnkey Job of all plant.	1983
	-First stage 2 units 2X110 M.W.				1978
14	**Cairo West Power Plant Unit 4 1X87.5.M.W.** Steam Turbine 1×87.5 M.W.	EEA	B.& W & Westinghouse-KAHROMIKA	- Turnkey Job of all plant.	1979

BOILER PROJECTS

S/N	Project	Capacity MW	Owner	Contractor	Scope of Work	Duration
1	Suez Thermal Power Plant 1×650 MW Gas/Oil Fired Unit	1×650 Unit # 1	EDEPC	ANSALDO CALDAIE S.P.A / AC BOILERS EGYPT SAE	- Installation of Steel Structure - Drum Lifting - Installation of Pressure Parts - Installation of Air & Gas Duct - Installation of Piping - Mech. Auxiliary Equipment - Steam Blow - Insulation & Refractory - Tests & Commissioning Assistance	Jan. 2014 Jul. 2015
2	El-Sokhna Super Critical Thermal Power Plant 2×650 MW Gas/Oil Fired Unit	1×650 Unit # 1	EDEPC	DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD	- Installation of Steel Structure - Installation of Pressure Parts - Installation of Air & Gas Duct - Installation of Piping - Mech. Auxiliary Equipment - Steam Blow - Tests & Commissioning Assistance	May 2011 Aug. 2013
3	El-Sokhna Super Critical Thermal Power Plant 2×650 MW Gas/Oil Fired Unit	1×650 Unit # 2	EDEPC	DOOSAN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD	- Installation of Steel Structure	May 2011 April 2012
4	Cairo West	2×350	CEPC	SUMITOMO CORPORATION/BABCOCK-HITACHI K.K CO.	- Installation of Steel Structure - Drum Lifting - Installation of Pressure Parts - Installation of Air & Gas Duct - Installation of Piping - Mech. Auxiliary Equipment - Installation of Electrical & Instrumentation - Chemical Cleaning - Steam Blow - Insulation & Refractory - Tests & Commissioning Assistance	2008 2010

BOILER PROJECTS

S/N	Project	Capacity MW	Owner	Contractor	Scope of Work	Duration
5	Sidi Krir	2×325	CEPC	INTERGEN/BECHTEL	- Installation of Steel Structure - Installation of Pressure Parts - Installation of Air & Gas Duct - Installation of Piping - Mech. Auxiliary Equipment - Installation of Electrical & Instrumentation - Chemical Cleaning - Steam Blow - Insulation & Refractory - Tests & Commissioning Assistance	2000 2002
6	Oyoun Moussa	2×320	EEA	CIMI MANTOUBI	- Supply and fabrication of Air & Gas duct of boilers	1999 2000
7	El-Kurimat	2×600	NUEEPC	CIMI MANTOUBI	- Supply, fabrication & erection of Air & Gas duct of boilers	1996 1997
8	Assuit II	1×325	EEA	SAE -SADELMI	- Installation of Steel Structure - Installation of Pressure Parts - Installation of Air & Gas Duct - Installation of Piping - Mech. Auxiliary Equipment - Installation of Electrical & Instrumentation - Chemical Cleaning - Steam Blow - Insulation & Refractory - Tests & Commissioning Assistance	1993 1994

BOILER PROJECTS

S/N	Project	Capacity MW	Owner	Contractor	Scope of Work	Duration
9	El-Arish	2×30 MW	EEA	Consortium Agreement with BHEL (INDIA)	- Supply, fabrication & erection of Steel Structure - Supply, fabrication & erection of Air & Gas Duct - Supply of cable, cable tray, insulation & painting material - Installation of pressure parts - Installation of Piping - Mech. Auxiliary Equipment - Installation of Electrical & Instrumentation - Chemical Cleaning - Steam Blow - Insulation & Refractory - Tests & Commissioning Assistance	1992 1994
10	Cairo West 5 & 6	2×325	CEPC	SAE -SADELMI	- Installation of Non pressure parts - Installation of Electrical and Instrumentation	1993 1994
11	Abu Quir Unit 5	1×325	WDEPC	STEIN INDUSTRY	- Installation of Steel Structure - Installation of Pressure Parts - Installation of Air & Gas Duct - Installation of Piping - Mech. Auxiliary Equipment - Installation of Electrical & Instrumentation - Chemical Cleaning - Steam Blow - Insulation & Refractory - Tests & Commissioning Assistance	1989 1990

BOILER PROJECTS

S/N	Project	Capacity MW	Owner	Contractor	Scope of Work	Duration
12	Talkha unit 1 & 2	2×210	WDEPC	Consortium with SKODA EXPORT & SKODA PRAHA	- Installation of Steel Structure - Installation of Pressure Parts - Installation of Air & Gas Duct - Installation of Piping - Mech. Auxiliary Equipment - Installation of Electrical & Instrumentation - Chemical Cleaning - Steam Blow - Insulation & Refractory - Tests & Commissioning Assistance	1988 1990
13	Kafr El-Dawar Unit 3 & 4	2×110	EEA	Consortium with SKODA EXPORT & SKODA PRAHA	- Installation of Steel Structure - Installation of Pressure Parts - Installation of Air & Gas Duct - Installation of Piping - Mech. Auxiliary Equipment - Installation of Electrical & Instrumentation - Chemical Cleaning - Steam Blow - Insulation & Refractory - Tests & Commissioning Assistance	1983 1985
14	Cairo West 4	1×87.5	CEPC	B&W and WESTINGHOUSE	- Installation of Steel Structure - Installation of Pressure Parts - Installation of Air & Gas Duct - Installation of Piping - Mech. Auxiliary Equipment - Installation of Electrical & Instrumentation - Chemical Cleaning - Steam Blow - Insulation & Refractory - Tests & Commissioning Assistance	1978 1979

BOILER PROJECTS

S/N	Project	Capacity MW	Owner	Contractor	Scope of Work	Duration
15	Kafr El-Dawar Unit 1 & 2	2×110	EEA	Consortium with SKODA EXPORT & SKODA PRAHA	- Installation of Steel Structure - Installation of Pressure Parts - Installation of Air & Gas Duct - Installation of Piping - Mech. Auxiliary Equipment - Installation of Electrical & Instrumentation - Chemical Cleaning - Steam Blow - Insulation & Refractory - Tests & Commissioning Assistance	1976 1978

DIESEL GENERATOR PROJECTS

S/N	Project	Location	Owner	Work Description						Completion Date
				Mechanical	Electrical	Piping	Tanks	Painting	Civil	
1	10th of Ramadan City 4X2000 KW (WARTSILA) Turnkey	10th of Ramadan City-EGYPT	RECON. AUTH	x	x	x	x	x	x	2000
2	El - Kousir 3X600 KW	El - Kousir EGYPT	EEA	x	x	x	x	x	x	1991
3	Taba 3X600	Taba EGYPT	EEA	x	x	x	x	x	x	1990
4	Sidi Barani 4X600 KW	Sidi Barani EGYPT	EEA	x	x	x	x	x	x	1990
5	Abou Simbul 3X600 KW	Luxor EGYPT	EEA	x	x	x	x	x	x	1989
6	El Salloum 4X600 KW	El-Salloum EGYPT	EEA	x	x	x	x	x	x	1988
7	Siwa 4X600 KW	Siwa Oasis EGYPT	EEA	x	x	x	x	x	x	1987

INDUSTRIAL PROJECTS

S/N	Project Name	Owner	Work Description					Completion Date
			Mechanical	Electrical	Piping	Insulation	Painting	
1	Line 2 of Belkas	Egyptian Sugar and Integrated Industrial Co.	x	x				2009
2	Installation of two boilers, 2 turbines and equipment	ORASCOM	x	x	x		x	2008
3	Installation of Trough Screw Conveyor	Abu Zaabal Fertilizer and Chemical Company	x					2008
4	Fayoum Beet Sugar Factory	Fayoum Sugar Factory	x					2008
5	Installation of measuring and control instruments in Nubaria Sugar and Refining Co.	Egyptian Sugar and Integrated Industrial Co.		x				2006
6	Installation of Boiler, Turbine and Equipment	Nubaria Sugar and Refining Co.	x	x		x	x	2006
7	Installation of line 1 of Dakhila Beet Sugar Factory	Egyptian Sugar and Integrated Industrial Co.	x					2006
8	Dismantling and Installation of 1 super heater	Misr Spinning weaving and Beida Dyers Co.	x					2005
9	Installation of Mubarak Pump Station - Toshka	Ministry of Irregation	x	x	x	x	x	2002
10	Misr Bani-Suef Cement Co.	Misr Bani-Suef Cement Co.	x	x		x		2002
11	Nacl Washing Fayom	Na cl Washing Fayom	x	x				2002
12	Fiber Board Factory	Fiber Board Factory	x	x	x	x	x	2001
13	Fayom Beet Suger Factory	Fayom Beet Suger Factory	x	x	x	x	x	2001
14	Abo-Kurkas Beet Suger Factory	Abo-Kurkas Beet Suger Factory	x	x	x	x	x	2000
15	Dakahlia Beet Suger Factory	Dakahlia Beet Suger Factory	x	x	x	x	x	1997
16	Rehabilitation of Delta Beet Suger Factory	Delta Beet Suger Factory	x	x	x	x	x	1996
17	Rehabilitation of Edfo Suger Factory	Edfo Suger Factory	x	x	x	x		1992

INDUSTRIAL PROJECTS

S/N	Project Name	Owner	Work Description					Completion Date
			Mechanical	Electrical	Piping	Insulation	Painting	
18	Installation of Tyers Factory	Alexandria Company for Tyres	x	x	x	x	x	1992
19	Rehabilitation of Kom-Ombu Suger Factory	Gerga Suger Factory	x	x	x	x		1991
20	Rehabilitaion of Abo Kurkas Suger Factory	Abo Kurkas Suger Factory	x	x	x	x		1990
21	Rehabilitation of Chemical & Distillation Factory	Hawmdia Chemical & Distillation Factory	x	x	x	x		1989
22	Helwan Complex for Thermal Products	Ministry of Industry	x	x	x	x		1989

TANKS PROJECTS

S/N	Project	Owner	Contractor	Capacity m3	Number	Scope of Work	Material of Tank	Completion Date
1	Tobruk Power Plant	GECOL	KAHROMIKA	2000 200 1000	5 1 2	Rehabilitation	Carbon Steel	2002
2	Derna Power Plant	GECOL	KAHROMIKA	13000 650 200	3 3 1	Rehabilitation	Carbon Steel	2002
3	Ben-Ghazi North Power Plant	GECOL	KAHROMIKA	10000 500	4 4	Rehabilitation	Carbon Steel	2002
4	Sert Power Plant	GECOL	KAHROMIKA	2500 3000	4 2	Rehabilitation	Carbon Steel	2002
5	Tripoli West Power Plant	GECOL	KAHROMIKA	10000 1900 1500 250 670 170	8 2 2 4 2 2	Rehabilitation	Carbon Steel	2002
6	Khoms Power Plant	GECOL	KAHROMIKA	20000 1800 650 100	6 2 4 9	Rehabilitation	Carbon Steel	2001
7	Midelec 2 X 32 MW	Midor	F.A. Neuman	1500 2200	1 1	Erection	Stainless Steel	2000
8	Al-Arish P. Plant 2 x 30 MW	EEA	BAHARAT	8000	3	Erection	Carbon Steel	1993
9	Talkha Power Plant 2 X 210 M.W.	EEA	Skoda	20000 10000 500	2 1 1	Erection, Fabrication	Carbon Steel	1989
10	National Company for Corn Products-10 th of Ramadan City	National Co. for Corn Prod. 10 th of Ramadan City	KAHROMIKA	2000 1000 500	2 2 2	Erection	Carbon Steel	1988
11	Yeast Factory-Salam City	General Company for Greater Cairo Bakery	KAHROMIKA	500	2	Erection	Carbon Steel	1985
12	Kafr El-Dawar Power Plant 4x110 MW	EEA	SKODA EXPORT	1500	6	Erection	Carbon Steel	1983
13	ESCO Company Power Plant	ESCO Company	KAHROMIKA	2000 500	1 2	Erection	Carbon Steel	1981
14	Cairo West Power Plant 1X 87,5 MW	Egyptian Electricity Authority (EEA)	B & W Westinghous	5000 2000	1 2	Erection	Carbon Steel	1978
15	Misr Company for Artificail Silk	Misr Co. Artificial Silk	KAHROMIKA	300 500 1000	4 4 3	Erection	Stainless Steel	1976

WATER WORKS

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
A	**WATER TREATMENT:-**				
1	Water Treatment & Waste Water for Sidi Krir	Intergen	KAHROMIKA	Electrical and Mechanical Works	2002
2	Water Treatment Plant for El-Kureimat Power Plant	E.E.A	KAHROMIKA	Electrical and Mechanical Works	1998
3	Water Treatment Plant for Talkha Power Plant	E.E.A	KAHROMIKA	Electrical and Mechanical Works	1991
4	Water Treatment Plant for El-Tebbin Power Plant	E.E.A	KAHROMIKA	Electrical and Mechanical Works	1988
5	Water Treatment Plant for El-Siuof Power Plant	E.E.A	KAHROMIKA	Electrical and Mechanical Works	1988
6	Water Treatment Plant for National Company for Corn Products	National Company for Corn Products	KAHROMIKA	Electrical and Mechanical Works	1986
7	Water Treatment Plant for Cairo West Power Plant	E.E.A	KAHROMIKA	Civil & electrical and Mechanical Works	1978
8	Water Treatment Plant for Cairo South Power Plant	E.E.A	KAHROMIKA	Civil & Electrical and Mechanical Works	1976
B	**WASTE WATER TREATMENT:-**				
1	Waste Water Treatment Plant for El-Kureimat Power Plant	E.E.A	KAHROMIKA	Electrical and Mechanical Works	1998
2	Waste Water Treatment Plant for Abo Soltan Power Plant	E.E.A	KAHROMIKA	Electrical and Mechanical Works	1997
3	Waste Water Treatment for Abo Kurkas Suger Factorty	Suger & Int. Industries Co.	KAHROMIKA	Electrical and Mechanical Works	1995
4	Waste Water Treatment Plant for Shoubra El-Kheima Power Plant	E.E.A	KAHROMIKA	Electrical and Mechanical Works	1987
C	**WATER PUMPING STATION:-**				
1	Mubarak Pumping Station	Irrigation Ministry	KAHROMIKA	Electrical and Mechanical Works	2002
2	EL Gaafaria Pumping Station	Irrigation Ministry	KAHROMIKA	Electrical and Mechanical Works	1982
3	Nubaria Pumping Station	Irrigation Ministry	KAHROMIKA	11 pumps 6500 m3 / hr Discharge	1972

STEEL SHEETS WORKS

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
1	PEURTO - RICO Coke Handling	Robert & Sch.	Robert & Schafer KAHROMIKA	Steel Structure & Conveyor Supports	2001
2	Toshka Pumping Station	Ministry of Irrigation	HITACHI KAHROMIKA	Pit - Liners	2001
3	SOMAC 100 Ton Cement Silos	SOMAC	KAHROMIKA	Batch Plants Silos	2001
4	Toshka Pumping Station	Ministry of Irrigation	AIC KAHROMIKA	Crane Girders, Heavy Flanges 90 - 300 mm	2000
5	Alexandria Coke Handling	Midor	Robert & Schafer KAHROMIKA	Steel Structure & Conveyor Supports	2000
6	Ayoun Moussa Power Station 2 x 320 M.W.	EEA	Techint Cimi-Mantubi KAHROMIKA	Engineering ,Supply. and Fab.of Air and Gas Duct, Boiler Casing.	2000
7	Sidi Krir Power Station 2 x 320 M.W.	EEA	Techint Cimi-Mantubi KAHROMIKA	Engineering ,Supply. and Fab.of Air and Gas Duct, Boiler Casing.	1998
8	Abou Kurkas lime kiln Plant	Sugar Company	Sugar Company KAHROMIKA	Dia 10 m,High 70m, Thickness Ranges 24-12 mm	1998
9	Korn Storage Tanks	Sugar Company	Sugar Company KAHROMIKA	Dia 10 m,High 70m, Thickness Ranges 24-12 mm	1998
10	Egyptian Electrical Rural Organization	Egyptian Elec. Rural Org.	KAHROMIKA	11, 22 & 220 KV Transmission Towers	1998
11	Misr Company for Chemical Products - Alexandria	Misr Co. for Chemical	KAHROMIKA	Hot Rolled & Built up Section	1997
12	El- Kurimate Power Station 2 x 600 M.W.	EEA	Techint Cimi-Matnubi KAHROMIKA	Engineering, Supply and Fab. of Air and Gas Duct	1997
13	Belkas lime kiln plant	Sugar Company	Sugar Company KAHROMIKA	Dia 10 m,High 70m, Thickness Ranges 24-12 mm	1997
14	Council for Development and Reconstruction LEBANON	C.D.R. Lebanon	KAHROMIKA	11 K.V. Transimission Tower	1996
15	El - Hamoul lime kiln Plant	Sugar Company	Sugar Company KAHROMIKA	Dia 10 m, High 70m, Thickness Ranges 24-12 mm	1996
16	El- Mahmodia Power Station 8 x 30 M.W.	EEA	Techint Cimi-Mantubi KAHROMIKA	Fuel Gas Duct	1995
17	El- Arish Power Station 2 x 30 M.W.	EEA	Baharat India KAHROMIKA	Engineering, Supply.and Fab. of Air and Gas Duct	1995

STEEL STRUCTURE PROJECTS

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
1	El-Sokhna Thermal Power Plant 2×650 MW Steel Structure of Boiler (2) CP-105	ECPC	DOOSAN	Installation of steel structure for Boiler (2)	2012
2	Sidi Krir Power Plant 2 X 325 MW	INTER - GEN.	BECHTEL O.S KAHROMIKA	St. St. of Boilers & St. St. of Turbine	2001
3	Assiut Power Plant 1 X 320 MW	EEA	ABB-Sadelmi KAHROMIKA	St. St. of Boiler	2000
4	Bani Suef Cement	BANI SUEF Cement Co.	KAHROMIKA	Supply, Fab, Installation of Steel Structure	2000
5	Belkas Suger Can	Belkas Suger Can Co.	KAHROMIKA	Supply, Fab., Installation of Steel Struct.	1996
6	AL-Arish P.P 2 X 32 MW	EEA	BAHARAT	Supply, Fab, Installation of Boiler Steel Struct.	1995
7	Talkha Power Plant 2 X 210 M.W.	EEA	SKODA KAHROMIKA	St. St. of Boilers & st. st. of Turbine	1989
8	Abu Qir Power Plant 1 x 325 M.W.	EEA	Stein Industry France KAHROMIKA	St. St. of Boilers	1989
9	EL-Tebbin Power Plant 3 X 25 MW	EEA	Trans - Electro KAHROMIKA	St. St. of Boilers	1983
10	Kafr Al Dawar Power Plant 4x110 MW	EEA	SkODA EXPORT KAHROMIKA	St. St. of Boilers	1982
11	Cairo West Power Plant 1X 87,5 MW	EEA	B & W& Westinghous KAHROMIKA	St. St. of Boilers	1978

PIPING WORKS

S/N	Project	Owner	Contractor	Scope of Work				Notes	Completion Date
				Engin.	Supply	Fabri.	Erection		
1	Sidi Krir Power Plant 2 x 325 M.W.	INTERGEN	BECHTEL KAHROMIKA			x	x	Boiler, Turbine and B.O.P Critical and Noncritical Piping	2002
2	Ayoun Moussa P.P. 2 X 320 M.W.	EEA	Consortium SKODA KAHROMIKA		x	x	x	Installation of B.O.P., Critical and Noncritical Piping	2000
3	Cairo South P.P HRSG of unit 1,5,8	EEA	IEMSA ITALY KAHROMIKA			x	x	Boiler Piping	1997
4	El- Kureimat P.P. 2 X 600 M.W.(B.O.P) Instal.	EEA	SAE-SADELMI KAHROMIKA			x	x	Critical and Non Critical Piping	1997
5	Al Arish Power Plant 2 X 30 M.W.	EEA	TECHINT CIMI-MANTUBI			x	x	B.O.P. Piping and Natural Gas Piping	1995
6	Assuit Power Plant unit no 2 1 X 325 M.W Boiler installation	EEA	SAE-SADELMI KAHROMIKA			x	x	Boiler- Piping, B.O.P Piping and Natural Gas Piping	1995
7	Al Arish Power Plant 2 X 30 M.W.	EEA	Baharat KAHROMIKA			x	x	Boiler & Piping and Natural Gas Piping	1994
8	Cairo West P.P. of unit 5 & 6 2 x 325 M.W.	EEA	SAE -Sadelmi KAHROMIKA			x	x	Boiler- Piping & B.O.P Piping and Natural Gas Piping	1994
9	Talkha Power Plant 2 X 210 M. W	EEA	Consortium SKODA			x	x		1992
10	Abu Qir Power Plant unit 5 - 1 X 325 M.W Boiler & Turbine installation	EEA	Stein Industry France KAHROMIKA			x	x		1989
11	Cairo West Power Plant Unit 4 1 X 87.5.MW	EEA	B.& W and Westinghouse KAHROMIKA			x	x		1979
12	**- Kafr EL Dawar Power Plant:** A - First Stage 2 units . 2 X 110 M.W - Turnkey	EEA	Consortium SKODA KAHROMIKA			x	x		1978
	B- Second Stage another 2 units 2 X 110 M.W					x	x		1983

INSULATION WORKS

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
1	Sidi Krir Power Plant 2 x 325 M.W. Boiler, Turbine, B.O.P.	INTERGEN	BECHTEL KAHROMIKA	Supply & Erectaion of Boiler & Turbine and Bop	2002
2	Ayoun Moussa P.P. 2 X 320 M.W. Instalation of B.O.P.	EEA	Consortium SKODA- KAHROMIKA	Bop Insulation	2000
3	Cairo South P.P. over-hauling of HRSG of unit 1,5,8	EEA	IEMSA ITALY KAHROMIKA	HRSG Insulation	1997
4	El- Kureimat P.P. 2 X 600 M.W. (B.O.P) Instal.	EEA	SAE -SADELMI KAHROMIKA	Bop Insulation	1996
5	Cairo West P.P. of unit 5 & 6 2 x 325 M.W.	EEA	SAE -SADELMI KAHROMIKA	Boiler insulation	1994
6	Al Arish Power Plant 2 X 30 M.W.	EEA	BAHARAT KAHROMIKA	Boiler insulation	1994
7	Talkha Power Plant 2 X 210 M. W	EEA	Consortium SKODA - KAHROMIKA	B.O.P. Insulation	1989
8	Abu Qir Power Plant unit 5 - 1 X 325 M.W Boiler & Turbine installation	EEA	Stein Industry (France) KAHROMIKA	Boiler & Turbine and B.O.P. Insulation	1989
9	Power Station for Misr Reyon company 1 x 50 M.W.	Misr Reyon Comp.	KAHROMIKA		1981
10	Power Station for ESCO Company	ESCO Company	KAHROMIKA	Erection	1981
11	Cairo West Power Plant Unit 4 1 X 87.5 M.W.	EEA	B.& W and Westinghouse KAHROMIKA	Boiler & Turbine and B.O.P. Insulation	1979
12	**- Kafr El Dawar Power Plant:** A - First stage 2 units 2 X 110 M.W - Turnkey	EEA	Consortium SKODA KAHROMIKA	Boiler & Turbine and B.O.P. Insulation	1978
	B- Second Stage another 2 units 2 X 110 M.W				1983

Rehabilitation, Overhauling, Maintenance Projects

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
1	Cairo South Thermal Power Plant 8 x 60 M.W.	EEA	KAHROMIKA	Rehabilitation for Boilers1,2,3,4 Overhauling of Turbines1,2,3,4 Regular maintenance for all units	From 1976 to 2002
2	Doha East Thermal Power Plant 7 x 150 M.W.	KUWAIT	KAHROMIKA	Overhauling of Boilers	From 1997 to 2000
3	Doha West Thermal Power Plant 8 x 300 M.W.	KUWAIT	KAHROMIKA	Overhauling of Turbines	From 1996 to 1999
4	West Trapoli Thermal Power Plant	LYBIA	KAHROMIKA	Rehabilitation for Boilers	1998
5	Derna Thermal Power Plant	LYBIA	KAHROMIKA	Rehabilitation for Boilers	1997
6	El - Tebbin Thermal Power Plant 5 x 40 M.W.	EEA	KAHROMIKA	Rehabilitation for Boilers1,2,3,4 Overhauling of Turbines1,2,3,4 Regular maintenance for all units	From 1979 to 1995
7	Suger and integrated industries company	Suger Co.	KAHROMIKA	Rehabilitation of 13 boilers at Hawamdia ,Abu Kerkas , Nagaa Hammadi, Edfu, Kom ombu and Armant cane suger factories	1993
8	Shoubra El Kheima Power Plant 4 x 350 M.W.	EEA	KAHROMIKA	Rehabilitation of 2 Boilers unit 1 & 2	1992
9	Talkha Power Plant 3 x 30 M.W.	EEA	KAHROMIKA	Overhauling of 3 Boilers	1991
10	Assuit Power Plant 2 x 350 M.W.	EEA	KAHROMIKA	Overhauling of Boiler No. 1	1990
11	Abou-Qir Thermal Power Plant	EEA	KAHROMIKA	Rehabilitation of one Boiler unit 1	1988
12	Kafr El Dawar Thermal Power Plant 4 x 110 M.W.	EEA	KAHROMIKA	Rehabilitation for Boilers1,2	1987
13	Kafr El-Dawar Thermal Power Plant 4 x 110 M.W.	EEA	KAHROMIKA	Overhauling of Turbines 3,4	1987
14	El - Suef Thermal Power Plant 5 x 30 M.W./ 2x26.5 M.W.	EEA	KAHROMIKA	Rehabilitation for 5 Boilers	1987
15	Cairo West P.P. Thermal Power Plant 4x87.5 M.W.	EEA	KAHROMIKA	Rehabilitation 3 Boilers of units 1,2,3	1983
16	Cairo North Thermal Power Plant 10 x 30 M.W.	EEA	KAHROMIKA	Rehabilitation for Boilers No 6&10 Overhauling of Boilers No.1& 2& 3& 4& 5& 7& 8& 9	from 1976 to 1982

Ministry Of Electricity & Energy .
Egyptian Electricity Holding co.
Upper Egypt Electricity Production Company.
Assuit Thermal Power Plant.

وزارة الكهرباء والطاقة
الشركة القابضة لكهرباء مصر
شركة الوجه القبلي لإنتاج الكهرباء
محطة توليد كهرباء أسيوط

من / شركة الوجه القبلي لإنتاج الكهرباء.

إلى / شركة مصر للمشروعات الكهربائية والميكانيكية (كهروميكا)

شهادة تقدير

تشهد شركة الوجه القبلي لإنتاج الكهرباء بأن شركة كهروميكا قد قامت بفك وتركيب ملفات البخار المعاد تحميصه بمحطة كهرباء أسيوط الوليدية – بالوحدة الثانية – قدرة ٣١٢ م.و بنجاح وكفاءة عالية تستحق الإشادة والتقدير .

وهذه شهادة تقدير منا بذلك ....

رئيس مجلس الإدارة

والعضو المنتدب لشركة الوجه القبلي لإنتاج الكهرباء.

مهندس /

٢٠٠٦/٧/٢٢

أحمد محمد دياب

TEL : 088 2325764
FAX : 088 2321951
E-mail: assuit_tpp@Yahoo.com

تليفون : ٢٣٢٥٧٦٤ ـ ٢٣٢٥٢٣٧/ ٠٨٨
فاكس : ٠٨٨/٢٣٢١٩٥١
بريد إلكتروني :

WWW.UEEPC.COM

Egyptian Electricity Holding Company
DELTA EAST ELECTRICITY PRODUCTION CO.
ATAKA POWER STATION
Tel&Fax : (002062)360023/25/63
E.mail : Ataka_P.S@fsuez.com.eg

To whom it may concern

Ataka Power Station herby certify that Misr Company for Mechanical and Electrical Projects (KAHROMIKA) executed the replacement of tertiary superheater and supporting tubes for coiles of the boilers no 1&2 that have a capacity of 480 ton/hr , a pressure 143 bar and a temperature 540 °C at MCR

This certificate was given to Kahromika under their request without any responsibility on Ataka Power Station .

Sector Head
Eng. Deyaa Yousse
12-6-2002

HITACHI
Inspire the Next

Soqeel, Oshim, Manashi Road
Giza Egypt
Cairo West Power Station

Date: July 20, 2011

Recognization of Jobsite performance

MISR Co.for Mechanical & Electrical Projects"Kahromika"

We "BABCOCK-HITACHI K.K,SUMITOMO CORPORATION " hereby recognize that MISR Co.for Mechanical & Electrical Projects"Kahromika" has been carried out the Mechanical & Electrical Erection work of 350MW x 2 Gas and Oil firing Boiler at Cairo West thermal power plant .

During construction KAHROMIKA has engaged in the following jobs:

1. Boiler steel structure erection
2. Steam Drum Lifting & Alignment
3. Water walls (lifting, fit up and welding)
4. Steam headers (lifting, adjustment and welding)
5. Coils lifting and fit up (Economizer, Reheater inlet & outlet, Primary,Secondary & Tertiary inlet and outlet)
6. Risers,Super heater connection & supply connection piping (lifting, fit up and welding)
7. Buckstay, Vestibule & Windbox Trusses Lifting & Alignment.
8. Burners installation
9. All Kinds of Connecting Piping, i.e. Large & Small Bores
10. Combustion piping
11. Fire fighting system
12. Refractory and attachment work
13. Boiler casing installation (penthouse, vestibule,Wind box and lower furnace casing)
14. Air preheater installation
15. Air and gas duct Preassembly & Installation
16. Forced draft Fan and gas recirculation fan installation
17. Chemical cleaning piping.
18. Steam blow out piping
19. Boiler enclosure installation
20. RadioGraphic Tests for all welded Joints,

Egyptian Electricity Holding Company
Cairo Production Electricity Company
Shoubra EL-Kheima Power Plant
☎ Tel : 4440531 - 4445397
✉ P.B. No. 45 Shoubra EL-Kheima
Fax. : 4440745
E. Mail – Sek 9200@yahoo. Com. eg

الشركة القابضة لكهرباء مصر
شركة القاهرة لإنتاج الكهرباء
محطة كهرباء شبرا الخيمة
☎ ت : ٤٤٤٠٥٣١ – ٤٤٤٥٣٩٧
✉ ص. ب : ٤٥ شبرا الخيمة
فاكس : ٤٤٤٠٧٤٥

To whom it may concern

Shoubra EL-Kheima Power Station herby certify that Misr Company for Mechanical and Electrical Projects (KAHROMIKA) as a partner of the consortium Ansaldo / Kahromika executed the replacement of tertiary superheater of the boiler no 2 that has a capacity of 1134 ton/hr , a pressure 180 kg/cm^2 and a temperature 540 °C at MCR

This certificate was given to Kahromika under their request without any responsibility on Shoubra EL-Kheima Power Station .

S.E.K
Head of Sector
June 8, 2002
Eng. Samir Hassan

MITSUBISHI HEAVY INDUSTRIES, LTD.

TOYOTA TUSUSHO CORPORATION

Certificate

Mitsubishi Heavy Industrial Company appreciate the great effort of the Condenser Group (Fitters & welders) for the hard work which has done to achieve and control all condenser activities to meet all the deadlines.

MHI Condenser SUPERVISOR

MR/Essam Hanfy

MHI Condenser SUPERVISOR

MR/GENICHI OAZKI

صنعة شهادات جهات الإسناد .

21. PreHeating and PWHT for Large Bore High Thickness Joints,
22. Insulation of Pressure Parts, Air & Gas Ducts,
23. Installation of all Electrical & I&C work (Cables,cable trays,conduit,Lighting,….)
24. Air Leak Test,
25. HydroStatic Test for the boiler.

KAHROMIKA performed the work under HITACHI supervision in accordance quality,schedule and safety requirements

We highly appreciate KAHROMIKA efforts and we hope a more cooperation between us on other projects.

大竹 忠秀

Tadahiko Ohtake
Cairo West Project Site Manager
Babcock Hitachi K.K/Sumitomo CO.

Bechtel

Bechtel Overseas Corporation

World Trade Center
1191 Corniche El Nil Street
Beaulac, Cairo, Egypt
P.O. Box 716 – Attaba – Cairo
Telephone: 5741491 – 5747273 – 5747801/5
Facsimile: 5767551 – 5788893

Site Address
Bechtel Overseas Corporation
Egypt BOOT #1, Sidi Krir Units 3 & 4
KM 30, Alexandria – Matrouh Road
P.O. Box 102, Borg El Arab New City
Alexandria, North Coast, Egypt
Tel: 508 25 24 & 26 & 27 Fax: 508 25 15

SIDI KRIR UNITS 3 & 4 POWER PROJECT

RECOGNITION OF SIGNIFICANT CONTRIBUTION

KAHROMIKA

20 JANUARY 2001

Since mobilizing to the Project in November 1999, Kahromika has been the Performance Incentive Subcontractor for the Mechanical, Piping, Boiler and Structural Steel Erection work. This Recognition of Significant Contribution is for Kahromika's hard work and commitment to the Project.

Since their arrival, Kahromika has successfully integrated into the Project Team, providing highly skilled Craft and Non-Manual personnel and successfully blending them throughout the construction organization. Kahromika's contribution has allowed the project to execute some major equipment installations in what is believed to be world record time.

The first major achievement was the erection of the two steam drums. Working closely together Bechtel and Kahromika utilized a strand jack system to place with steam drums within five weeks of each other and three months ahead of the schedule date. In addition, the two 150-ton condensers were prefabricated and installed in the structure within 3 months by utilizing a temporary monorail system.

Recently, the Hydrostatic Testing of Boiler Unit Three was successfully executed ahead of the schedule. During the course of the erection, in excess of eleven thousand, seven hundred and fifty welds were executed all of which passed the hydro test without failure. This achievement is a credit to the skill of Kahromika's craft personnel and their supervisors.

Kahromika's contribution to date has been a significant factor in achievements leading to the Project currently being more than 75% complete and three months ahead of its guaranteed schedule.

Based on Kahromika's professionalism and commitment to the Project's principals and goals, we hereby present Kahromika with this award in recognition of their efforts to date.

D. L. Webster
Site Manager

Bechtel Overseas Corporation

Bechtel

Bechtel Overseas Corporation

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1191 Corniche El Nil Street
Beaulac, Cairo, Egypt
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SIDI KRIR UNITS 3 & 4 POWER PROJECT

RECOGNITION OF SIGNIFICANT CONTRIBUTION

KAHROMIKA

2 JULY 2001

Since mobilizing to the project in November 1999, Kahromika has been the Performance Incentive Subcontractor for the Mechanical, Piping, Boiler and Structure Steel Erection work. This Recognition of Significant Contribution is for Kahromika's hard work and commitment to the project.

Since their arrival, Kahromia has successfully integrated into the project team, providing highly skilled Craft and Non- Manual personnel and successfully blending them throughout the construction organization. Kahromika's contribution has allowed the project to execute some major equipment installations in what is believed to be world record time.

The first major achievement was the erection of the two steam drums. Working closely together Bechtel and Kahriomka utilized a stand jack system to place with steam drums within five weeks of each other and three months ahead of the schedule date. In addition, the two 150-ton condensers were prefabricated and installed in the structure within 3 months by utilizing a temporary monorail system.

Recently, the hydrostatic testing of boiler unit four and the Boiler duct leak test was successfully executed ahead of the schedule, During the course of the erection, in excess of eleven thousand, seven hundred and fifty welds were executed all of which passed the hydro test without failure. This achievement is a credit to the skill of Kahromika's craft personnel and their supervision.

Every successful Project needs Management at the top, supported by other departments such as Procurement and Design Engineering and along with this requires excellent Field Supervision. This is what Kahromika has provided. Kahromika has some of the best craft supervisors that Bechtel has seen anywhere, providing craft leadership in order to meet an aggressive schedule. The project has met all goals we have set forward after two years and are on schedule for Construction Substantial Completion two months earlier than guaranteed. This has been made possible with the outstanding cooperation shown by Kahromika and there Management Team.

Bechtel Overseas Corporation

Bechtel

Bechtel Overseas Corporation

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KM 30, Alexandria – Matrouh Road
P.O. Box 102, Borg El Arab New City
Alexandria, North Coast, Egypt
Tel: 508 25 24 & 26 & 27 Fax: 508 25 15

Based on Kahromika's professionalism and commitment to the project's principles and goals, we hereby present Kahromika with this recognition of their efforts to date.

D. L. Webster
Site Manager

Bechtel Overseas Corporation

Egyptian Electricity Holding Company
Cairo Production Electricity Company
Shoubra EL-Kheima Power Plant
☎ Tel : 4440531 - 4445397
✉ P.B. No. 45 Shoubra EL-Kheima
Fax. : 4440745
E. Mail – Sek 9200@yahoo. Com. eg

الشركة القابضة لكهرباء مصر
شركة القاهرة لإنتاج الكهرباء
محطة كهرباء شبرا الخيمة
☎ ت : ٤٤٤٠٥٣١ – ٤٤٤٥٣٩٧
✉ ص. ب : ٤٥ شبرا الخيمة
فاكس : ٤٤٤٠٧٤٥

To whom it may concern

Shoubra EL-Kheima Power Station herby certify that Misr Company for Mechanical and Electrical Projects (KAHROMIKA) as a partner of the consortium Ansaldo / Kahromika executed the replacement of tertiary superheater of the boiler no 2 that has a capacity of 1134 ton/hr , a pressure 180 kg/cm^2 and a temperature 540 °C at MCR

This certificate was given to Kahromika under their request without any responsibility on Shoubra EL-Kheima Power Station .

S.E.K
Head of Sector
June 8, 2002
Eng. Samir Hassan

June 1st, 2002

Cairo, Egypt

To whom it may concern

Aic certify that Misr Company for Mechanical and Electrical Projects "Kahromika"(Kuwait Branch) in association with aic is responsible for the erection of 300 MW open cycle for Al Kamil power plant in Oman, continue from three gas turbines Frame 9171E and its substation including generator transformers , auxiliary transformers , service transformers and switch gears required for the caption project .

Chairman

Hassan Allam

TOYOTA TSUSHO CORPORATION

MITSUBISHI HEAVY INDUSTRIES, LTD.

THE CONSORTIUM OF MITSUBISHI HEAVY INDUSTRIES, LTD. & TOYOTA TSUSHO CORPORATION

Date: 1 June 2009
Ref. No.: LTR-KAH-00005

To; KAHROMIKA
El Atf Power Station-750 MW Combined Cycle Project
Att; Mohammed Quretum, Management Director

Project: El Atf Power Station – 750 MW Combined Cycle Project
Contract No. 10053 – CP 101, Combustion Turbine Generators
Subject: Egypt El-Atf Achievement of Unit1 1st Fire.

Dear Sir,

El –Atf Power Project Unit1 achieved 1st Fire on 29th May 09.

We MHI appreciate your continuous support and effort to achieve our target.

As we aware that the situation of this project is extremely touch. (Tight Schedule, Limited Access, Far Lay down Area……). However we achieved our 1st target without any problem.

We hope to continue Unit2 with same performance to achieve same success.

Also we appreciate strong support from Mr.Adb El Aziz Farid Mandor for our project.

And we hope our continuous relation with your company for future project.

Your kind attention would be highly appreciated

Yours faithfully,

The Consortium of
Mitsubishi Heavy Industries, Ltd. &
Toyota Tsusho Corporation (MHI/TTC Consortium)

A.Doi, Site Manager
for El Atf P/S
On behalf of Consortium

ARAB REPUBLIC OF EGYPT
EGYPTION ELECTRICITY HOLDING CO.
EAST DELTA ELECTRICITY PRODUCER COMPANY
AYOUN MOUSSA POWER STATION

EXPERIENCE CERTIFICATE

The Ayoun Moussa power Station hereby certifies That Misr Co. for Mechanical and Electrical Projects, a partner of the consortium of contract 118 "Mechanical Installation package", executed the following works during the period of setting up the project:

1. *Installation of critical piping and fittings thereof*
2. *Installation of the main pump station for cooling water*
3. *Supply and installation of non-critical piping and fittings thereof*
4. *Installation of the water desalination plant*
5. *Installation of fuel and natural gas piping network*
6. *Installation of all pump of the project including condensate pumps, feed pumps high-pressure and low-pressure heaters, condensate steam regeneration cycle for fuel tanks and Dearators*
7. *Supply and Installation of cables trays in the project*
8. *Design, supply and installation of ventilation and air-conditioning systems*
9. *manufacture, supply and Installation of tanks of different purposes*
10. *Design, supply and installation of fire fighting and alarm network*

HEAD
Of Ayoun Moussa Power Station
Michael George

HEAD
Of the production Sectors
At east delta electricity director
M. Youakeem

CHAIRMAN
M. Hassan

الشركة القابضة لكهرباء مصر
شركة شرق الدلتا لانتاج الكهرباء
محطة توليد كهرباء عيون موسى

شهادة خبرة

تشهد محطة توليد كهرباء عيون موسى بان شركة مصر للمشروعات الكهربائية والميكانيكية إحدى اتحاد شركات مقاول أعمال التركيبات الميكانيكية عقد ١١٨ قد قام بتنفيذ الأعمال الاتية خلال فترة إنشاء المشروع :-

- تركيب أنظمة المواسير الحرجة وملحقاتها
- تركيب محطة طلمبات التبريد الرئيسية
- توريد وتركيب أنظمة المواسير الغير حرجة وملحقاتها
- تركيب محطة تحلية المياه
- تركيب شبكة مواسير الوقود والغاز الطبيعي
- تصميم وتوريد وتركيب شبكة (إطفاء الحريق - الإنذار)
- تركيب جميع طلمبات المشروع من طلمبات متكاثف وتغذية ومسخنات الضغط العالى والمنخفض ودورة إعادة البخار المتكاثف لخزانات الوقود والدياريتو
- توريد وتركيب حوامل الكابلات بالمشروع
- تصميم وتوريد وتركيب أنظمة التهوية والتكييف
- تصنيع وتوريد وتركيب خزانات مختلفة الأغراض

رئيس قطاع
محطة توليد كهرباء عيون موسى
مهندس /
" علـــى علـــى عراب "

رئيس قطاعات الإنتاج
بشركة شرق الدلتا لانتاج الكهرباء
مهندس /
"مقبل يوأقيم ميخائيل"

رئيس مجلس
الإدارة والعضو المنتدب
مهندس /
" محمد محمود علي حسن "

الشركة القابضة لكهرباء مصر

شركة الوجه القبلي لإنتاج الكهرباء

****

شهادة

****

تشهد شركة الوجه القبلي لإنتاج الكهرباء بان

شركة مصر للمشروعات الميكانيكية والكهربائية (كهروميكا)

قامت بتنفيذ العقد رقم CP 118 والخاص بأعمال التركيبات الميكانيكية والكهربائية بمحطة كهرباء الكريمات MW 2 x 627 مشاركة مع شركة Sae Sadalmi وقد قامت بعمل جميع الاختبارات وأعمال التشغيل الابتدائي المطلوبة لجميع الأنظمة والموجودة داخل نطاق العقد بقيمة إجمالية ٤٣ مليون دولار و٣٧ مليون جنيه مصرى ٠

علما بأن شركة مصر للمشروعات الميكانيكية والكهربائية (كهروميكا) من أكبر الشركات المصرية المتخصصة في أعمال محطات توليد الكهرباء بجمهورية مصر العربية وقد قامت بعملها فى محطة توليد الكريمات على الوجه الأكمل ٠

رئيس مجلس الإدارة

مهندس / أحمد محمد دياب

الشركة القابضة لكهرباء مصر (٢) شركة الوجه القبلى لإنتاج الكهرباء

EGYPT

Abou Ghali Building
68, El Merghany Street,
Heliopolis, 11341 Cairo, Egypt
Phone : +2 (0) 2 2291 49 13 / 18 / 27 / 71
Fax : +2 (0) 2 2291 49 30
www.eg.alstom.com

ALSTOM

EL-TEBBIN - Thermal Power Plant 2x350 MW
CP-106 Steam Turbine 2X350 MW
Recognition of significant contribution KAHROMIKA

Since mobilizing to the project in August 2008, KAHROMIKA has been the performance incentive subcontractor for the mechanical and electrical works. This Recognition of significant contribution is for KAHROMIKA's hard work and commitment to the project.

Since their arrival, KAHROMIKA has successfully integrated into the project team, providing highly skilled craft and Non- Manual personal and successfully blending them throughout the construction organization.

Working closely together ALSTOM and KAHROMIKA made the achievement which was the lifting, erection of Two Steam Turbines Generators under Alstom Supervision, Auxiliaries and all their piping and equipment works, also condenser works all in time according to the schedule.

KAHROMIKA has some of the best craft supervisions, providing craft leadership in order to meet an aggressive schedule. The project has met all goals we have set forward after two years and are on schedule for Construction Substantial Completion. This has been made with the cooperation shown by KAHROMIKA and there Management Team.

Based on KAHROMIKA's professionalism and commitment to the project's principles and goals, we hereby present KAHROMIKA with this recognition of their efforts to date.

Eng. Reda Salama
General Manager Egypt Sites

Reda Salama

ALSTOM

ALSTOM Egypt For
Power and Transport Projects SAE

ALSTOM Egypt for Power & Transport Projects S.A.E.
Commercial Register No. 10761 Cairo South
Issued Capital: EGP 10 000 000

EGYPT

Abou Ghali Building
68, El Merghany Street,
Heliopolis, 11341 Cairo, Egypt
Phone : +2 (0) 2 2291 49 13 / 18 / 27 / 71
Fax : +2 (0) 2 2291 49 30
www.eg.alstom.com

ALSTOM

KURIMATE (III) - Combined Power Plant 1x750 MW
CP-106 Steam Turbine 1X250 MW
Recognition of significant contribution KAHROMIKA

Since mobilizing to the project in October 2008, KAHROMIKA has been the performance incentive subcontractor for the mechanical and electrical works. This Recognition of significant contribution is for KAHROMIKA's hard work and commitment to the project.

Since their arrival, KAHROMIKA has successfully integrated into the project team, providing highly skilled craft and Non- Manual personal and successfully blending them throughout the construction organization.

Working closely together ALSTOM and KAHROMIKA made the achievement which was the lifting, erection of the Steam Turbine Generator Generators under Alstom Supervision, Auxiliaries and all their piping and equipment works, also condenser works all in time according to the schedule.

KAHROMIKA has some of the best craft supervisions that ALSTOM seen anywhere, providing craft leadership in order to meet an aggressive schedule. The project has met all goals we have set forward after two years and are on schedule for Construction Substantial Completion. This has been made with the cooperation shown by KAHROMIKA and there Management Team.

Based on KAHROMIKA's professionalism and commitment to the project's principles and goals, we hereby present KAHROMIKA with this recognition of their efforts to date.

Eng. Reda Salama
General Manager Egypt Sites

Reda Salama

ALSTOM
ALSTOM Egypt For
Power and Transport Projects SAE

ALSTOM Egypt for Power & Transport Projects S.A.E.
Commercial Register No. 10761 Cairo South
Issued Capital: EGP 10 000 000

TOMEN

TOMEN CORPORATION, EGYPT BRANCH

TOMEN CORPORATION, Egypt Branch – Nubaria Power Station Site Office

Date: 29/Jan/2006
Ref. No.: M-K-CP106-CX002-0363
Subject Code: **General**

TO MISR CO. FOR MECHANICAL & ELECTRICAL PROJECTS (KAHROMIKA)
Nubaria power Station I&II – 2x750MW (Nominal) Combined Cycle Project

Attn : Mr. Gad A.Sadek – Site Manager
CC : Mr. Abd El-Aziz Farid-General for Power Station Projects
Subject: Turbine On turning Gear for Module-I

Dear Mr. Gad

With reference to the above subject, please be informed that the **Turbine on Turning Gear** has been done successfully on 28-Jan-2006.

We would like to thanks for your good support due this successfully stage of our contract.

Thanks in advance for your kindly cooperation.
Best regards,

Yours faithfully,
TOMEN CORPORATION, Egypt Branch

Kazuhide Koga, Site Manager
Nubaria Power Station Site Office

ACTION RQUIRED: N/A
DUE DATE: N/A
Originator: K.Koga

02/7488201

TOMEN

TOMEN CORPORATION, EGYPT BRANCH

TOMEN CORPORATION, Egypt Branch – Nubaria Power Station Site Office

Date: 14/Mar/2006
Ref. No.: M-K-CP106-CX002-0375
Subject Code: **General**

TO MISR CO. FOR MECHANICAL & ELECTRICAL PROJECTS (KAHROMIKA)
Nubaria power Station I&II – 2x750MW (Nominal) Combined Cycle Project

Attn : Mr. Gad A.Sadek – Site Manager
CC : Mr. Abd El-Aziz Farid-General for Power Station Projects
Subject: Turbine On Turning Gear for Module-II

Dear Mr. Gad

With reference to the above subject, please be informed that the **Turbine on Turning Gear** has been done successfully on 13-Mar-2006.

We would like to thanks for your good support due this successfully stage of our contract.

Thanks in advance for your kindly cooperation.
Best regards,

Yours faithfully,
TOMEN CORPORATION, Egypt Branch

Sosuke Maezawa, Site Manager
Nubaria Power Station Site Office

ACTION RQUIRED: N/A
DUE DATE: N/A
Originator: S.Maezawa

TOMEN

TOMEN CORPORATION, EGYPT BRANCH

TOMEN CORPORATION, Egypt Branch – Nubaria Power Station Site Office

Date: Dec.,1, 2005

Ref.No: M-K-CP106-CX002- 315

Subject Code: E&I Work

TO MISR CO. FOR MECHANICAL & ELECTRICAL PROJECTS (KAHROMIKA)
Nubaria power Station I&II – 2x750MW (Nominal) Combined Cycle Project

Attn.: Mr. Gad A.Sadek – Site manager

CC : Mr. Abd El-Azezz

Subject: Electrical & Instrumentation team work

Dear Sir

I want to thanks you for your good action towards the pending tools for instrumentation work,

And I inform you that, there is a good communication & response from the Electrical, Instrumentation engineering & the supervision staff and also the Electrical and Instrumentation team work and they daily doing the best so we appreciate that because that is one of the most important reasons of success. and I hope to increase this success level till finish our project and keep it to others also .

Thank you for your cooperation,

Best regards,

Yours faithfully,

TOMEN CORPORATION, Egypt Branch

Turuo Fokushima, E&I Manager

Nubaria Power Station MHI Site Office

ACTION RQUIRED:

DUE DATE: A.S.A.P

Originator: E&I STAFF

Mr. / Ayman Saffan

Mr. / Alaa Ahmed

EGYPT

Abou Ghali Building
68, El Merghany Street,
Heliopolis, 11341 Cairo, Egypt
Phone : +2 (0) 2 2291 49 13 / 18 / 27 / 71
Fax : +2 (0) 2 2291 49 30
www.eg.alstom.com

ALSTOM

NUBARIA (III) - Combined Power Plant 1x750 MW
CP-106 Steam Turbine 1X250 MW
Recognition of significant contribution KAHROMIKA

Since mobilizing to the project in August 2008, KAHROMIKA has been the performance incentive subcontractor for the mechanical and electrical works. This Recognition of significant contribution is for KAHROMIKA's hard work and commitment to the project.

Since their arrival, KAHROMIKA has successfully integrated into the project team, providing highly skilled craft and Non- Manual personal and successfully blending them throughout the construction organization.

Working closely together ALSTOM and KAHROMIKA made the achievement which was the lifting, erection of the Steam Turbine Generator Generators under Alstom Supervision, Auxiliaries and all their piping and equipment works, also condenser works all in time according to the schedule.

KAHROMIKA has some of the best craft supervisions that ALSTOM seen anywhere, providing craft leadership in order to meet an aggressive schedule. The project has met all goals we have set forward after two years and are on schedule for Construction Substantial Completion. This has been made with the cooperation shown by KAHROMIKA and there Management Team.

Based on KAHROMIKA's professionalism and commitment to the project's principles and goals, we hereby present KAHROMIKA with this recognition of their efforts to date.

Eng. Reda Salama
General Manager Egypt Sites

ALSTOM
ALSTOM Egypt For
Power and Transport Projects SAE

Bechtel

Bechtel Overseas Corporation

World Trade Center
1191 Corniche El Nil Street
Beaulac, Cairo, Egypt
P.O.Box 716 - Attaba - Cairo
Telephone : 5741494 - 5747273 - 5747801/5
Facsimile : 5767551 - 5788893

Site Address
Bechtel Overseas Corporation
Egypt BOOT # 1, Sidi Krir Units 3&4
KM 30, Alexandria – Matrouh Road
P.O. B ox 102, Borg El Arab New City
Alexandria, North Coast, Egypt.
Tel: 508 25 24&26&27 Fax: 508 25 15

SIDI KRIR UNITS 3 & 4 POWER PROJECT

LETTER OF COMMENDATION

KAHROMIKA

11 JULY 2000

Kahromika has been employed as a Subcontractor on the Sidi Krir Units 3 & 4 Power Project as the Mechanical, Piping, Boiler Installation and Structural Steel Erector.

Under the Subcontract, Kahromika mobilized to site in November of 1999 to work with Bechtel to prepare the site for the structural steel erection. During this period, Kahromika's responsiveness, cooperation and adaptability was essential in contributing to the successful start of the construction activities. Since that time the Kahromika has consistently worked to support the Project Team.

Kahromika entered into agreement with Bechtel under a Performance Incentive Contract (PIC), a new concept for both Bechtel and Kahromika which provided the ability for Kahromika to achieve incentives for maintaining Safety, Quality, Schedule and Cost Performance while working in a blended organization with Bechtel. To date, all requirements of all five Performance Incentive Milestones have been achieved.

Kahromika's management have fulfilled the commitment to work to Bechtel's Safety Standards and Procedures and have worked with Bechtel to overcome any difficulties encountered. When issues have arisen, Kahromika has been responsive and effective in their resolution. Kahromika performance is a major factor in the Project's achievement of reaching a Safety milestone of one million manhours without a Lost Time Accident.

The quality of Kahromika's work has been of a high standard and, in particular, their work on Structural Steel, Condenser and Boiler erection deserves special recognition. The willingness of Kahromika's non-manual personnel to work closely within the Organization has allowed quick resolutions to construction and technical issues to the benefit of all.

Kahromika's schedule and cost performance has also been a major success for Kahromika and for the Project Team. Kahromika's performance level on this Project is higher than other Projects that are currently managed by Bechtel in Middle East. As testament to this, Kahromika has achieved all of their Milestones to date, which have been set on a progressively more aggressive basis.

Kahromika's commitment, professionalism and support as part of the Project Team, has contributed to the successful relationship Bechtel and AIC have enjoyed on the Project to date.

D. L. Webster
Bechtel Site Manager

Bechtel Overseas Corporation

Substation Projects

Major Completed Projects
500 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
1	500/220 KV SS Nubaria	ZTR	EEA/CONSIS	Alex Zone EGYPT			■	2005
2	500/132/11 KV SS Nagaa Hammadi	USSR	EEA	EGYPT			■	1975

Major Completed Projects

220 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
1	220/66 KV SS El-Owinat		EEA	LIBYA				2009
2	220/6.3 KV SS Arabian Cement Co.	SIEMENS	SIEMENS	EGYPT			■	2009
3	220/66 KV SS El-Marg			LIBYA			■	2009
4	220 KV Connection of ACC SS to Ezz/Masreya H.V. Electrical Power Line	ARABIAN CEMENT COMPANY	ARABIAN CEMENT COMPANY	EGYPT			■	2008
5	220 KV Switchyard in El-Kureimat Power Station	SIEMENS	SIEMENS	EGYPT	■	■	■	2007
6	220 Extension of Luxor SS	VA TECH	VA TECH	LUXOR-EGYPT		■	■	2007
7	220/66/11 KV SS El – Reswa Substation Extension	EGEMAC		EGYPT			■	2006
8	220 KV Ext. of Manayef	EGEMAC		EGYPT		■	■	2006
9	220/66/11 KV Tahrir - Badr	VA TECH	VA TECH	EGYPT			■	2006
10	220 KV Ext. of Suez-Manayef-Reswa	EGEMAC		EGYPT			■	2006
11	220/66/11 KV Suez Substation Extension	EGEMAC	EGEMAC	SUEZ-EGYPT			■	2005
12	220/66//11 KV Substation 10th of Ramadan	EGEMAC	EEA	EGYPT		■	■	2003
13	220/66/22/11 KV Substation Al Moatamadia (Cairo)	SIEMENS / EGEMAC	EEA	EGYPT			■	2000

Major Completed Projects

220 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
14	220/66/11 KV Substation El Saloum	EGEMAC	EEA	EGYPT			■	2000
15	220/66 KV Substation Cairo South	EGEMAC	EEA	EGYPT			■	1999
16	220/66/22 kv Substation El-Kantra East	EGEMAC	EEA	EGYPT			■	1998
17	220/66/11KV Substation Extension of Tanta S/S.		EEA	EGYPT			■	1998
18	220/66/11KV Substation-Safaga	BBC	EEA	EGYPT		■	■	1994
19	220/66/11KV Substation-El Omayed (Alexandria)	BBC	EEA	EGYPT		■	■	1992
20	220/66/11KV Substation-Marsa Matrouh (66 only)	BBC	EEA	EGYPT		■	■	1992
21	220/132/11KV Substation-Qina	BBC	EEA	EGYPT		■	■	1992
22	220/66/11KV Substation-Attaka (Sinai)	M.M	EEA	EGYPT		■	■	1988
23	220/66/11KV Substation-Al Dekhela GIS (Alex)	Siemens	EEA	EGYPT		■	■	1986
24	220/66/11KV Substation-El Fayoum / Demo GIS	Sprechur	EEA	EGYPT		■	■	1984
25	220/66/11KV Substation-Kafr El Sheikh	AEG	EEA	EGYPT		■	■	1982
26	220/66/11KV Substation-Suez	AEG	EEA	EGYPT		■	■	1981
27	220/66/11KV Substation-Ismailia	AEG	EEA	EGYPT		■	■	1981
28	220/66/11KV Substation-Talkha	SKODA	EEA	EGYPT		■	■	1979

Major Completed Projects

220 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
29	220/66/11KV Substation Cairo East	AEG	EEA	EGYPT		■	■	1978
30	220/66/11KV Substation Tebine (Helwan – Cairo)	AEG	EEA	EGYPT		■	■	1977

Major Completed Projects

66 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
1	66/11 KV Substation-El Zagazig	EGEMAC	EGEMAC	EGYPT			■	2006
2	66 KV Substation-Replacement of ends of 12 SS		GECOL	LIBYA			■	2005
3	66/11 KV Substation-North Souhag	EGEMAC	EGEMAC	EGYPT		■	■	2005
4	66/11 KV Substation-Sidi Salem	EGEMAC	EGEMAC	EGYPT			■	2005
5	66/11 KV Substation-Kohafa	EGEMAC	EGEMAC	EGYPT		■	■	2004
6	66/22 KV Substation-El Alameen	EGEMAC	EGEMAC	EGYPT		■	■	2004
7	66/22 KV Substation-Suez	EGEMAC	REA	EGYPT		■	■	2004
8	66/22 KV Substation-El Obour 3	EGEMAC	REA	EGYPT		■	■	2004
9	66/22 KV Substation-Wadi El Natroun	EGEMAC	REA	EGYPT		■	■	2004
10	66/11 KV Substation-Ras El Bar	EGEMAC	REA	EGYPT		■	■	2004
11	66/22 KV Substation-El Obour	ABB	REA	EGYPT		■	■	2004
12	66 KV Substation-Emsaad		GECOL	LIBYA		■	■	2004
13	66/22 KV Substation-Suez Gulf	ABB	REA	EGYPT		■	■	2003
14	66/11 KV Substation-Sebha West		GECOL	LIBYA		■	■	2003

Major Completed Projects

66 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
15	66/11 KV Substation-Tarhuna Wishtata		GECOL	LIBYA		■	■	2003
16	66/11 KV Substation-Tamzein		GECOL	LIBYA		■	■	2003
17	66/11 KV Substation-Al Gufra Nos. 2		GECOL	LIBYA		■	■	2003
18	66/11 KV Substation-Al Gufra Al Fergan		GECOL	LIBYA		■	■	2003
19	66/22 KV Substation-Bani Ghaleb Industrial	ABB	REA	EGYPT		■	■	2003
20	66 KV Substation-Harwa		GECOL	LIBYA			■	2002
21	66 KV Substation-Weshtata Tarhuna		GECOL	LIBYA			■	2002
22	66/11 KV Substation-El Naqra 3	EGEMAC	REA	EGYPT		■	■	2002
23	66/22 KV Substation-Desert Road East	ABB	REA	EGYPT		■	■	2002
24	66/11 KV Substation-Abu El Mataameer	Schneider	REA	EGYPT		■	■	2002
25	66/22 KV Substation-El Elameyeen	EGEMAC	EGEMAC	EGYPT			■	2002
26	66/11 KV Substation-El Naqra 2	EGEMAC	REA	EGYPT		■	■	2001
27	66/22 KV Substation-El Hamra	Schneider	REA	EGYPT		■	■	2001
28	66/11 KV Substation-Kalabsha	EGEMAC	EEA	EGYPT			■	2001

Major Completed Projects

66 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
29	66 KV Substation-Media 6th of October		EGEMAC	EGYPT			■	2000
30	66/6.3 KV Substation-El Amereya Petroluim	EGEMAC	EGEMAC	EGYPT			■	2000
31	66/6.3 KV Substation-Sinai Cement	EGEMAC	EGEMAC	EGYPT			■	2000
32	66/11 KV Substation-El Nozha	EGEMAC	EGEMAC	EGYPT			■	2000
33	66/22 KV Substation-Wadi El Sheeh	Schneider	REA	EGYPT		■	■	2000
34	66/22 KV Substation-6th of October 2	EGEMAC	EGEMAC	EGYPT			■	2000
35	66/22 KV Substation-6th of October 1	EGEMAC	EGEMAC	EGYPT			■	2000
36	66/11 KV Substation-Cairo South	EGEMAC	REA	EGYPT			■	2000
37	66/11 KV Substation-El Minia West	EGEMAC	REA	EGYPT		■	■	1999
38	66/11 KV Substation-Bulkas	EGEMAC	REA	EGYPT		■	■	1999
39	66/11 KV Substation-Ideal Factory	EGEMAC	IDEAL	EGYPT		■	■	1999
40	66/6.3 KV Substation-Factory 99	EGEMAC	Factory 99	EGYPT		■	■	1998
41	66/33/11 KV Substation-Al Saaida	EGEMAC	REA	EGYPT		■	■	1998
42	66/33/11 KV Substation-Qoos	EGEMAC	REA	EGYPT		■	■	1997

Major Completed Projects

66 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
43	66/33/11 KV Substation-El Sebaaeya	EGEMAC	REA	EGYPT		■	■	1997
44	66/11 KV Substation-Wadi El Naqra	EGEMAC	REA	EGYPT		■	■	1997
45	66 KV Substation-Minia East	EGEMAC	REA	EGYPT		■	■	1997
46	66 KV Substation-Hehya	EGEMAC	REA	EGYPT		■	■	1995
47	66 KV Substation-Minia El Kamh	EGEMAC	EGEMAC	EGYPT		■	■	1995
48	66 KV Substation-Sakolta	EGEMAC	REA	EGYPT		■	■	1995
49	66 KV Substation-El Monshaa	EGEMAC	REA	EGYPT		■	■	1995
50	66 KV Substation-Mahmoudia		Goldestar	EGYPT		■	■	1994
51	66 KV Substation-Factory 200		Electroimpex	EGYPT		■	■	1994
52	66 KV Substation-Nadi El Remaya	Bulkhar	Electroimpex	EGYPT		■	■	1994
53	66 KV Substation-El Dawagen	Bulkhar	Electroimpex	EGYPT		■	■	1994
54	66 KV Substation-El Maadi	Bulkhar	Electroimpex	EGYPT		■	■	1994
55	66 KV Substation-El Mokatam	Bulkhar	Electroimpex	EGYPT		■	■	1994
56	66 KV Substation-Helwan University	Bulkhar	Electroimpex	EGYPT		■	■	1994

Major Completed Projects

66 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
57	66 KV Substation-El Bats		K.Metal	EGYPT		■	■	1993
58	66 KV Substation-El Bostan	FINLAND	REA	EGYPT		■	■	1993
59	66 KV Substation-Abuxa		K.Metal	EGYPT		■	■	1993
60	66 KV Substation-Sahl El Hesania	SKODA	REA	EGYPT		■	■	1993
61	66 KV Substation-Shebeen El Kanater	SKODA	REA	EGYPT		■	■	1992
62	66 KV Substation-El Bagour	SKODA	REA	EGYPT		■	■	1992
63	66 KV Substation-Masraf El Omoum	PADAK / WARGRA	REA	EGYPT		■	■	1991
64	66 KV Substation-Berket El Sabaa	SKODA	REA	EGYPT		■	■	1991
65	66 KV Substation-El Delingat	SKODA	REA	EGYPT		■	■	1991
66	66 KV El-Amereya (GIS)	GIE	REA	EGYPT		■	■	1989
67	66 KV Substation-El Tebine (GIS)	GIE	REA	EGYPT		■	■	1988
68	66 KV Substation-Wadi El Natroun	EGEMAC	REA	EGYPT		■	■	1988
69	66/22 KV El-Tagamoa El-Khames	ABB	REA	EGYPT		■	■	1988
70	66 KV Substation-El Kasaseen/Ismaelia	HOLEC	REA	EGYPT		■	■	1988

Major Completed Projects

66 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
71	66 KV Substation-El Tahady	FINLAND	REA	EGYPT		■	■	1987
72	66 KV Substation-Tamya	FINLAND	REA	EGYPT		■	■	1987
73	66 KV Substation-El Abasa	FINIAND	REA	EGYPT		■	■	1986
74	66 KV Substation-Kafr Sakr	HOLEC	REA	EGYPT		■	■	1986
75	66 KV Substation-El Azbakia	E.G-TECH	EEA	EGYPT		■	■	1985
76	66 KV Substation-Gamila Bohraid	E.G-TECH	EEA	EGYPT		■	■	1985
77	66 KV Substation -Batra	E.G-TECH	REA	EGYPT		■	■	1984
78	66 KV Substation -Dahshour	E.G-TECH	REA	EGYPT		■	■	1984
79	66 KV Substation-El-Santah	E.G-TECH	REA	EGYPT		■	■	1984
80	66 KV Substation-Semouha	E.G-TECH	REA	EGYPT		■	■	1984
81	66 KV Substation-El Nubaria 200	E.G-TECH	REA	EGYPT		■	■	1983
82	66 KV Substation-Belbis		REA	EGYPT		■	■	1982
83	66 KV Substation-Kiman Fares		REA	EGYPT		■	■	1982
84	66 KV Substation-El Alamin		EEA	EGYPT		■	■	1982

Major Completed Projects

66 KV Substations

Ser	Project Name	Supplier	Client Name / Main Contractor	Location	Scope of Work			Completion Date
					Turn Key	Civil Works	Complete Erection of SS Equipment	
85	66 KV Substation-Factory 100	E.G-TECH		EGYPT		■	■	1981
86	66 KV Substation-Omar El Khayam	E.G-TECH	REA	EGYPT		■	■	1981
87	66 KV Substation-Tanta		REA	EGYPT		■	■	1980
88	66 KV Substation El Warak		EEA	EGYPT		■	■	1980
89	66 KV Substation-El Mahala		EEA	EGYPT		■	■	1980
90	66 KV Substation-Abu Qir Fertilizer	E.G-TECH	EEA	EGYPT		■	■	1976
91	66 KV Substation-Talkha Fertilizer	E.G-TECH	EEA	EGYPT		■	■	1972
92	66 KV Substation-El Tebine	USSR	EEA	EGYPT		■	■	1972

PERFORMANCE CERTIFICATE

We hereunder signed "***CONISYS S.A.E, Member of SHAKER Consultancy Group***" as a consortium partner with HITACH, Ltd., being the main contractor of Garden City 66/11 KV GIS Substation, certify that "**KAHROMIKA**" has executed the installation and erection of *66/11KV, 12.5MVA, SF6 Type Power Transformers, 300 KVA Dry Type Auxiliary Transformers, 66 KV Cables & their SF6 plug-in type Sealing Ends, 11 KV Cables & their Sealing Ends, Low Voltage & Control Cables, Control Panels, Protection Panels, AC System, DC System and Earthing Connections.*

"**KAHROMIKA**" has executed the above scope in the highest performance and quality in accordance with the international recommendations and codes, and as per the time schedule of the project.

We don't hesitate to recommend "**KAHROMIKA**" in any similar work for their performance and expertise.

For "***CONISYS S.A.E, Member of SHAKER Consultancy Group***":

Dr. Mohamed. Shaker

President
SHAKER Consultancy Group

SHAKER
CONSULTANCY GROUP

CONISYS
Control & Instrumentation Systems Tech.
Member of Shaker Consultancy Group

شركة تكنولوجيا التحكم والقياس
شركة مساهمة مصرية
إحدى شركات المجموعة الإستشارية شاكر

التاريخ: ٢٠٠٥/٩/٢٠
رقم القيد: ٠٠١-٠٨-٣٠١٩
الموضوع: محطة محولات النوبارية جهد ٥٠٠ك.ف.

عناية السيد المهندس / محمد كمال برهومة
مدير مشروع محطة محولات النوبارية جهد ٥٠٠ك.ف. – شركة كهروميكا

تحية طيبة و بعد،،،

أود أن أسجل خالص شكرى وتقديرى لحسن أداء وكفاءة فريق العمل من شركتكم الموقرة فى مشروع محطة محولات النوبارية جهد ٥٠٠ك.ف. والذى أنجز جميع الأعمال الحديدية لتوسيع المحطة المذكورة على أكمل وجه وقبل التاريخ الوارد بالتعاقد.

مع أصدق تمنياتنا لكم ولشركتكم الموقرة بدوام التوفيق والتقدم.

وتفضلوا بقبول فائق الاحترام.

المدير المحلى للمشروع

مهندسة / نجوى عصمت

صورة للسيد المهندس / عادل عبد المعبود
رئيس مجلس الإدارة والعضو المنتدب

العنوان: مدينة المعراج – الطريق الدائرى – القاهرة
بريد الكتروني: shakereg@shakergroup.com
تليفون: ٥٢٠٤٥٠٠ (١٠ خطوط)
فاكس: ٥٢٠٤٥٠٥

CONISYS

Control & Instrumentation Systems Tech.

Member Of SHAKER Consultancy Group

شركة تكنولوجيا التحكم والقياس

شركة مساهمة مصرية

إحدى شركات المجموعة الاستشارية شاكر

PERFORMANCE CERTIFICATE

We hereunder signed ***"CONISYS S.A.E, Member of SHAKER Consultancy Group"*** as a consortium partner with Japan AE Power Systems and Sumitomo Corporation being the main contractor of **NUBARIA POWER STATION I & II 2x750 MW COMBINED CYCLE PROJECT 500 KV CONVENTIONAL AIR INSULATED SWITCHYARD** certify that **KAHROMIKA** has executed the construction of the civil works for the 500 KV air insulated switchyard and control building, and completed the installation of 11 500 KV bays, 10 single phase 500/220 KV 167 MVA auto transformers, control cables, control panels, protection panels, substation control system, AC system, DC system, live line insulators washing system and earthing system.

KAHROMIKA has executed the above scope in the highest performance and quality in accordance with the international standards and codes, and as per the time schedule of the project.

We don't hesitate to recommend **KAHROMIKA** in any similar work for their excellent performance and expertise.

For ***"CONISYS S.A.E, Member of SHAKER Consultancy Group"***

CONISYS

Dr. Mohamed Shaker
Chairman

Address: Building # 2075/76/77/78 - El Meraag
Cairo Ring Road - El-Maadi.

Tel: +(202) 5204500 (10 lines)
Fax: +(202) 5204505

VATECH

Transmission & Distribution

KAHROMICA

Attn: Chief Executive Officer

Date: Wednesday, May 17, 2006

Subject: Rehabilitation of Tahreer Badr 220/66/11 kV Substation

Dear Sir,
In the name of VA Tech transmission and distribution (Siemens group) and in the name of the team of Tahreer Badr s/s , I would like to show my gratitude and appreciation to the staff of Kahromika appointed to the aforementioned Substation ,for their highly cooperative attitude and their high degree of professionalism shown during our project.

Looking forward to other mutual work in the future.

With Best of luck.

Regards,

VA TECH Transmission & Distribution s.a.e
VATECH
في إيه تك لنقل وتوزيع الكهرباء ش.م.م

Eng. Essam Gaber
Project Manager

Mobile: +20 10 5642697
E-Mail: essam.gaber@vatech-td.com.eg

Date : February, 10/02/04

To Whom it May Concern

*We are hereby under signed General Electrical Company of Libya (**GECOL**) certify that Misr Company for Mechanical and Electrical Projects " **KAHROMIKA** " has been contracted for design, supply, construction. testing and commissioning of a project :*

*(**Al Khoms Al Mafateeh 220/66/30 K.v Substation**) in a turn key base.*

***KAHROMIKA** had executed the project in the proper manner with high efficiency and precision according to the technical specification & international standards and the schedule time without any delay.*

GECOL
General manager of Projects

Eng. Al Hadi Khalaf

TO WHOM IT MAY CONCERN

WE HEREBY CERTIFY THAT THE FOLLOWING PROJECTS HAVE BEEN AWARDED TO MISR COMPANY FOR ELECTRICAL AND MECHANICAL PROJECTS (KAHROMICA).

- QUENA SUBSTATION 220 / 132 / 66 K.V.
- EL OMIED SUBSTATION 220 / 66 / 20 K.V.
- MARSA MARTROUH SUBSTATION 220 / 66 / 11 K.V.
- SAFGA SUBSTATION 220 / 66 / 11 K.V.

THE ABOVE MENTIONED PROJECTS STILL UNDER EXECUTION BY KAHROMICA IN ACCORDANCE WITH CONTRACTS STIPULATIONS.

THE A/M PROJECTS ARE PROCEEDING WITHOUT ANY DIFFICULTIES AND WITH HIGH EFFICIENCY.

THIS CERTIFICATE IS GIVEN TO MISR COMPANY FOR ELECTRICAL AND MECHAMICAL PROJECTS (KAHROMICA) UPON ITS REQUEST WITHOUT ANY LIABILITIES TO EEA.

YOURS FAITHFULLY

"ENG. M. SAID ISSA"
CHAIRMAN EEA
19-12-93

والتجان في كل سكان

2/3

لاديمقراطية
بدون مؤتمرات شعبية

الجماهيرية العربية الليبية الشعبية الاشتراكية العظمى
الشركة العامة للكهرباء

التاريخ : ...
الموافق ...

الرقم الإشاري : ...

Date : February, 10/02/04

To Whom it May Concern

We are hereby under signed General Electrical Company of Libya (GECOL) certify that Misr Company for Mechanical and Electrical Projects " KAHROMIKA " has been contracted for design, supply, constructing, testing and commissioning of the following 66/11 K.v substations in a turn key base:

1. ***(Al Gufra Al Fergan 66/11 K.v Substation)***
2. ***(Nos. (2) Substations 66/11 K.v at Al Gufra Waddan)***
3. ***(Temzien 66/11 K.v Substation)***
4. ***(Tarhuna Wishtata 66/11 K.v Substation)***
5. ***(Sabha West 66/11 K.v Substation)***

KAHROMIKA had executed the project in the proper manner with high efficiency and precision according to the technical specification & international standards and the schedule time without any delay.

GECOL
General manager of Projects

Eng.\ Al Hadi Khalaf

TO WHOM IT MAY CONCERN

WE HERE CERTIFY THAT CABEL METAL ELECTRO GMBH IS CONTRACTED WITH KAHROMIKA TO EXECUTE CONSTRUCTION OF THE FOLLOWING PROJECTS :-

- EL BATS SUBSTATION .
- ABOXA SUBSTATION .

THE ABOVE MENTIONED PROJECTS STILL RUNNING EXECUTION BY KAHROMIKA ACCORDING TO THE CONTRACT PROGRAM FOR EACH PROJECT .

WE REMAIN .

CAIRO BRANCH MANAGER

kabelmetal electro GmbH
ALCATEL KABELMETAL
Branch Office Cairo

20.12.93

لا ديمقراطية
بدون مؤتمرات شعبية

والجان في كل مكان

الجماهيرية العربية الليبية الشعبية الإشتراكية العظمى
الشركة العامة للكهرباء

التاريخ : ...../...../.....
الموافق : ...../...../.....

الرقم الإشاري : .....

Date : February, 10/02/04

To Whom it May Concern

*We are hereby under signed General Electrical Company of Libya (**GECOL**) certify that Misr Company for Mechanical and Electrical Projects " **KAHROMIKA** " has been contracted for design, supply, construction, testing and commissioning of the following 30/11 K.v substations in a turn key base:*

1. ***(Zliten North 30/11 K.v Substation)***
2. ***(Az- Zawia South 30/11 K.v Substation)***

***KAHROMIKA** had executed the project in the proper manner with high efficiency and precision according to the technical specification & international standards and the schedule time without any delay.*

GECOL
General manager of Projects

Eng.\ Al Hadi Khalaf

Overhead Transmission Line Projects

Major Current OHTL Projects

S/N	Project	Owner	Contractor	Scope of Work	Completion Date
1	Rerouting of El Zaafarana / El Sokhna 220 Kv, 10 KM length	Teba Co.	KAHROMIKA	- Supply & Erection & Civil work for all project	2013
2	Construction of Talkha / Met Ghamr 220 k.v with 23 KM length and EL Zakazik / El Mansora 220 k.v with 2*14 KM length	(EETC) Egyptian Electricity Transmission Co.	KAHROMIKA	- Construction of Civil - Stringing of Conductors - OPGW Stringing - Erection of Towers	2013

Major Works
500 & 400 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissioning	Rehabilitation	
1	Rehabilitation of 500 Kv El-Kurimat / El-Basateen	Egyptian Electricity Transmission Co. (EETC)	Egypt	22								■	2012
2	Rehabilitation of 500 Kv El-Kurimat / Cairo	Egyptian Electricity Transmission Co. (EETC)	Egypt	20								■	2012
3	Construction of T.L 500 kV Single Circuit	Egyptian Electricity Transmission Co. (EETC)	Egypt	137				■	■	■			2012
4	Construction of T.L 500 kV Double Circuit	Egyptian Electricity Transmission Co. (EETC)	Egypt	58				■	■	■	■		2012
5	500 KV line between Sidi Krir / Nubaria Main Contractor:- Fujikura LTD / Sumitomo / KAHROMIKA	FUJIKURA	Egypt	130				■	■	■	■	■	2008
6	Rehabilitation of Samalot - Cairo 500 KV	Egyptian Electricity Transmission Co. (EETC)	Egypt	115				■					2003
7	Rehabilitation of Insulators for 500 kV Line Cairo 500 - Samalot - Assuit	Egyptian Electricity Transmission Co. (EETC)	Egypt	85								■	1997
8	Rehabilitation of Towers Foundation for 500 kV Line High Dam - Nagaa Hammadi	Egyptian Electricity Transmission Co. (EETC)	Egypt	320								■	1996
9	Rehabilitation of Insulators for 500 kV Line High Dam - Cairo 500	Egyptian Electricity Transmission Co. (EETC)	Egypt	85								■	1996

Major Completed Works

220 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissionin	Rehabilitation	
1	Construction of El Gamalia / Gharb Damietta	Egyptian Electricity Transmission Co. (EETC)	Egypt	20				■	■	■			2012
2	Toshka/ Owainat East 220 kV Double Circuit	Egyptian Electricity Transmission Co. (EETC)	Egypt	90				■	■	■			2011
3	220 KV Double circuit line between Ras Sedr / Abo Redis	Egyptian Electricity Transmission Co. (EETC)	Egypt	100				■	■	■	■		2009
4	220 KV Double circuit line between Abo Redis / Altoor / Sharm El-Sheikh	Egyptian Electricity Transmission Co. (EETC)	Egypt	50				■	■	■	■		2009
5	220 KV Kureimat / Bani Suef	Egyptian Electricity Transmission Co. (EETC)	Egypt	5				■	■	■	■		2008
6	220 KV Nubaria / El-Masria El-Amrekia	Egyptian Electricity Transmission Co. (EETC)	Egypt	25				■	■	■	■		2008
7	220 Double Circuit line between Abu Tartoor / Balat	Egyptian Electricity Transmission Co. (EETC)	Egypt	115				■	■	■			2008
8	220 KV Double circuit Interconnection lines for Sidi Salem Substation on Line Kafr El Sheikh / Mahmodia Power Station	Egyptian Electricity Transmission Co. (EETC)	Egypt	13				■	■	■	■		2008
9	220 KV Double circuit line between El-Kureimat / Tebbin South.	Egyptian Electricity Transmission Co. (EETC)	Egypt	70				■	■	■	■		2008
10	Rehabilitation of towers foundation for 220 KV Nagaa Hammadi / Abou Tartoor	Egyptian Electricity Transmission Co. (EETC)	Egypt	40								■	2008
11	220 KV Double circuit line between Interconnection of 10th Ramadan S/S	Egyptian Electricity Transmission Co. (EETC)	Egypt	45				■	■	■	■		2007

Major Completed Works

220 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissionin	Rehabilitation	
12	220 KV interconnection lines for New El-Tahrir Badr Substation on lines (El-Tahrir Badr / Itay El-Barod, El-Tahrir Badr / Menouf)	Egyptian Electricity Transmission Co. (EETC)	Egypt	1.5				■	■	■	■		2007
13	220 KV Supply & erection 6 steel towers for connection of ACC substation to Ezz/Masreya	Arab Cement Company	Egypt	1.8	■		■	■	■	■	■	■	2007
14	220 KV interconnection line for El-Nubaria Station on line Tanta / El-Tahrir Badr	Egyptian Electricity Transmission Co. (EETC)	Egypt	15				■	■	■	■		2007
15	Rehabilitation of earthwire for 220 KV lines between (Ataka / El-Asment, El-Asment / El-Sokhna, Awlad Hamam / Port Said)	Egyptian Electricity Transmission Co. (EETC)	Egypt	149								■	2007
16	Rehabilitation of earthwire for 220 KV lines between (El-Kantara East / Ber El-Abd&Ber El-Abd / El-Arish) & for 66 KV line between (El-Kantara East / Baloza)	Egyptian Electricity Transmission Co. (EETC)	Egypt	230								■	2007
17	220 KV Double circuit line between 10th Ramadan Substation / New Sharkia	Egyptian Electricity Transmission Co. (EETC)	Egypt	20				■	■	■	■		2006
18	Rehabilitation of Earth Wire on 220 KV lines / Alexandria City	Alexandria Electric Company	Egypt	30				■				■	2006
19	220 KV Double circuit line between Nubaria / Menouf	Egyptian Electricity Transmission Co. (EETC)	Egypt	43				■	■	■	■		2005
20	220 KV Double circuit line between Awlad Hamam / El-Reswa	Trust Chemicals Company	Egypt	10	■	■	■	■	■	■	■		2004
21	220 KV Double circuit line between Awlad Hamam / Port Said	Egyptian Electricity Transmission Co. (EETC)	Egypt	67				■	■	■	■		2003

Major Completed Works

220 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissionin	Rehabilitation	
22	220 KV Tranposition Towers (3 Towers) on Assuit / Malawy Line	Egyptian Electricity Transmission Co. (EETC)	Egypt	1				■	■	■	■		2003
23	220 KV Double circuit line between El Arish / Kantara	Egyptian Electricity Transmission Co. (EETC)	Egypt	40				■	■	■	■		2002
24	Replace of existing earth wire by OPGW for East Port Said PS / New Sharkia	Egyptian Electricity Transmission Co. (EETC)	Egypt	50				■	■	■	■		2002
25	220 KV Double circuit line between El Masria Cement Co. / Ezz Steel Factory	Egyptian Electricity Transmission Co. (EETC)	Egypt	35				■	■	■	■		2000
26	220 KV Double circuit line between Beer El Abd / Industrial Zone Sinai Center	Egyptian Electricity Transmission Co. (EETC)	Egypt	27				■	■	■	■		2000
27	220 KV Double circuit line between Sidi Krir / Karmouz	Egyptian Electricity Transmission Co. (EETC)	Egypt	50				■	■	■	■		2000
28	220 KV Double circuit line between Tanta / Kalubia	Egyptian Electricity Transmission Co. (EETC)	Egypt	80				■	■	■	■		2000
29	220 KV Double circuit line between Sakr Quraish / Ataka	Egyptian Electricity Transmission Co. (EETC)	Egypt	45				■	■	■	■		2000
30	220 KV Double circuit line between Aswan / Toshka	Egyptian Electricity Transmission Co. (EETC)	Egypt	60				■	■	■	■		1999
31	Rehabilitation of 300 KV Lines	Kuwait Electric Company	Kuwait	140								■	1998
32	220 KV Double circuit line between El Arish / El Kantara	Egyptian Electricity Transmission Co. (EETC)	Egypt	65				■	■	■	■		1998

Major Completed Works

220 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissionin	Rehabilitation	
33	220 + 66 KV Multi circuit line Between Taba / Nouba / Dahab	Egyptian Electricity Transmission Co. (EETC)	Egypt	63	■	■	■	■	■	■			1997
34	220 KV Double circuit line between Libya / Egypt Interconnection Tobrok / El Saloum	GECOL EEA	Libya Egypt	170	■	■	■	■	■	■			1997
35	220 KV Double circuit line between Ain El Safra / Bashar	Algeria Electric Company	Algeria	253				■	■	■	■		1997
36	220 KV Double circuit line between El-Ain El-Sokhna / Zafarana	Egyptian Electricity Transmission Co. (EETC)	Egypt	37				■	■	■	■		1997
37	220 KV Double circuit line between Assuit P.S / El Waleedia / Abu Qurkass	Egyptian Electricity Transmission Co. (EETC)	Egypt	110				■	■	■	■		1997
38	220 KV Double circuit line between Taba / Dahab / Sharm El Sheikh	Egyptian Electricity Transmission Co. (EETC)	Egypt	184	■	■	■	■	■	■			1997
39	220 KV Double circuit line between West Selwa / Kenna South	Egyptian Electricity Transmission Co. (EETC)	Egypt	85				■	■	■	■		1996
40	220 KV Double circuit line between El Omayed / Marsa Matrouh	Egyptian Electricity Transmission Co. (EETC)	Egypt	150				■	■	■	■		1996
41	220 KV Double circuit line between Sidi Barani / El Saloum	Egyptian Electricity Transmission Co. (EETC)	Egypt	85				■	■	■	■		1996
42	220 KV Double circuit line between El Omayed / El Dabbah	Egyptian Electricity Transmission Co. (EETC)	Egypt	85				■	■	■	■		1995
43	220 KV Double circuit line between Mansoura / Zagazig	Egyptian Electricity Transmission Co. (EETC)	Egypt	27				■	■	■	■		1995

Major Completed Works

220 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissionin	Rehabilitation	
44	220 KV Double circuit line between Assiut 500 / West Qena (Tema)	Egyptian Electricity Transmission Co. (EETC)	Egypt	76				■	■	■	■		1994
45	Rehabilitation of Towers Foundation for 220 KV Line Sakr Quraish / Suez	Egyptian Electricity Transmission Co. (EETC)	Egypt	58								■	1994
46	Rehabilitation of 300 KV Lines	Kuwait Electric Company	Kuwait	125								■	1994
47	220 KV Double circuit line between Nagaa Hammadi / Qena	Egyptian Electricity Transmission Co. (EETC)	Egypt	15				■	■	■	■		1993
48	220 KV Double circuit line between Cairo 500 / Tebbin South / Wadi Hauf	Egyptian Electricity Transmission Co. (EETC)	Egypt	64				■	■	■	■		1992
49	220 KV Double circuit line between Dameitta P.S / El Gamalia	Egyptian Electricity Transmission Co. (EETC)	Egypt	42				■	■	■	■		1992
50	220 KV Double circuit line between Hadabet El Ahram / Tebbin	Egyptian Electricity Transmission Co. (EETC)	Egypt	32				■	■	■	■		1992
51	220 KV Double circuit line between Assiut / El Waleedia	Egyptian Electricity Transmission Co. (EETC)	Egypt	40				■	■	■	■		1992
52	220 KV Double circuit line between Nagaa Hammadi / Gerga	Egyptian Electricity Transmission Co. (EETC)	Egypt	67				■	■	■	■		1991
53	220 KV Double circuit line between Borg El Arab / El Omayed	Egyptian Electricity Transmission Co. (EETC)	Egypt	37				■	■	■	■		1991
54	220 KV Double circuit line between Sherbin - Damietta	Egyptian Electricity Transmission Co. (EETC)	Egypt	35				■	■	■	■		1990

Major Completed Works

220 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissionin	Rehabilitation	
55	220 KV Double circuit line between Nagaa Hammadi - Abu Tartour	Egyptian Electricity Transmission Co. (EETC)	Egypt	100				■	■	■	■		1990
56	220 KV Double circuit line between Mahmodia - Kafr El Sheikh	Egyptian Electricity Transmission Co. (EETC)	Egypt	55				■	■	■	■		1990
57	220 KV Double circuit line between Mid Nagaa Hammadi / South Qena	Egyptian Electricity Transmission Co. (EETC)	Egypt	15				■	■	■	■		1990
58	220 KV Double circuit line between Mahmodia / Mahala	Egyptian Electricity Transmission Co. (EETC)	Egypt	40				■	■	■	■		1989
59	220 KV Double circuit line between Ataka / Suez / Suez Cement	Egyptian Electricity Transmission Co. (EETC)	Egypt	65				■	■	■	■		1986
60	220 KV Double circuit line between Talkha / Kafr El Sheikh	Egyptian Electricity Transmission Co. (EETC)	Egypt	65				■	■	■	■		1982
61	220 KV Double circuit line between Suez Cement / Ain El Sokhna	Egyptian Electricity Transmission Co. (EETC)	Egypt	35				■	■	■	■		1982
62	220 KV Double circuit line between Mahmodia / Damanhour	Egyptian Electricity Transmission Co. (EETC)	Egypt	16				■	■	■	■		1981

Major Completed Works

66 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissioning	Rehabilitation	
1	66 KV Double circuit line between Dekernes / Meet Fares	Egyptian Co. For Electric Distribution Delta District	Egypt	16				■	■	■	■		2009
2	66 KV Double Circuit line between El-Saloum / Sidi Barani	Egyptian Electricity Transmission Co. (EETC)	Egypt	80				■	■	■			2009
3	66 KV Double circuit line between Aswan North / Aswan West	Rural Electricity Authority (REA)	Egypt	25				■	■	■	■		2008
4	66 KV Double circuit line between Quhafa / Sanores	Egyptian Co. For Electric Distribution Middle District	Egypt	10				■	■	■	■		2008
5	66 KV Double circuit line between Interconnection of Al-Qanaiat Substation From Senblawain / Zagazig line	Rural Electricity Authority (REA)	Egypt	6.5				■	■	■	■		2008
6	Rehabilitation of Towers & Conductors for 66 KV line between El-Zagazig / El-Gafaria	Egyptian Electricity Transmission Co. (EETC)	Egypt	17								■	2007
7	66 KV Double circuit line between 10th Ramadan 5 / 10th Ramadan 6	Egyptian Co. For Electric Distribution Canal District	Egypt	15				■	■	■	■		2007
8	66 KV Double circuit line between Wadi El-Natron / East Desert Road	Rural Electricity Authority (REA)	Egypt	10				■	■	■	■		2007
9	66 KV Double circuit line between Interconnection of Alamain Substation From Omaid / Al Hamra Line	Rural Electricity Authority (REA)	Egypt	10				■	■	■	■		2007

Major Completed Works

66 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissioning	Rehabilitation	
10	66 KV Double circuit line between Aswan West / Aswan Interconnection	Rural Electricity Authority (REA)	Egypt	20				■	■	■	■		2007
11	66 KV Double circuit line between Interconnection Al Kurimat Substation From Al Wasta 2 / Bani Suef East Line	Rural Electricity Authority (REA)	Egypt	6				■	■	■	■		2006
12	66 KV Double circuit line between Interconnection of Qwesna Substation From Berket El Saba / Kfor Al Raml Line	Rural Electricity Authority (REA)	Egypt	5				■	■	■	■		2006
13	66 KV Double circuit line between Interconnection of Kaft Substation from Qena / Qous Line	Rural Electricity Authority (REA)	Egypt	35				■	■	■	■		2006
14	66 KV Double circuit line between Eslah 3 / Eslah 4	Rural Electricity Authority (REA)	Egypt	7				■	■	■	■		2006
15	66 KV Double circuit line between Kantara East / Kantara West	Rural Electricity Authority (REA)	Egypt	15				■	■	■	■		2006
16	66 KV Double circuit Interconnection lines For Quesna Substation on Line Tanta / Kalubia	Egyptian Electricity Authority (EEA)	Egypt	4				■	■	■	■		2005
17	66 KV Double circuit line between interconnection of Eslah 1 Substation from Eslah 220 / Abu Sembel Line	Rural Electricity Authority (REA)	Egypt	11				■	■	■	■		2005
18	66 KV Double circuit line between Nagaa Hammadi / Bahgoura	Rural Electricity Authority (REA)	Egypt	20				■	■	■	■		2005
19	66 KV Double circuit line between Wadi El Natron / East Desert Road	Rural Electricity Authority (REA)	Egypt	15				■	■	■	■		2004

Major Completed Works

66 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissioning	Rehabilitation	
20	66 KV Double circuit line between Interconnection of Al Bostan Pumping Station from Al Bostan / Al Nasr Line	Egyptian Co. For Electric Distribution Alex. District	Egypt	10				■	■	■	■		2004
21	66 KV Double circuit line between Dameitta Sea Port / Awlad Hamam	Rural Electricity Authority (REA)	Egypt	10				■	■	■	■		2004
22	66 KV Double circuit line between El Arish / Sheikh Zowaid	Egyptian Co. For Electric Distribution Canal District	Egypt	50				■	■	■	■		2004
23	66 KV Double circuit line between Interconnection of Eslah 1 Substation from Eslah 220 / Abu Sembel Line	Rural Electricity Authority (REA)	Egypt	11				■	■	■	■		2004
24	66 KV Double circuit line between Brolous West / Rasheed	Rural Electricity Authority (REA)	Egypt	30				■	■	■	■		2004
25	66 KV Double circuit line between Taba / Kift	Rural Electricity Authority (REA)	Egypt	28				■	■	■	■		2004
26	66 KV Double circuit line between Awlad Hamam / Rass El Bar	Rural Electricity Authority (REA)	Egypt	20				■	■	■	■		2004
27	66 KV Double circuit line between Nagaa Hammadi / Bahgoura	Rural Electricity Authority (REA)	Egypt	23				■	■	■	■		2004
28	66 KV Double circuit line between El Eslah / Abou Sembel	Rural Electricity Authority (REA)	Egypt	14				■	■	■	■		2004
29	66 KV Double circuit line between Brolous West / Rasheed	Rural Electricity Authority (REA)	Egypt	20				■	■	■	■		2003
30	66 KV Double circuit line between Demo Branch / El Fayoum	Rural Electricity Authority (REA)	Egypt	30				■	■	■	■		2003

Major Completed Works

66 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissioning	Rehabilitation	
31	66 KV Double circuit line between Abu El Matameer / Masraf El Omoom	Rural Electricity Authority (REA)	Egypt	15				■	■	■	■		2003
32	66 KV Double circuit line between Reiva / El Ghanaiem	Rural Electricity Authority (REA)	Egypt	30				■	■	■	■		2002
33	66 KV Double circuit line between Abu Ghaleb / Desert Road	Rural Electricity Authority (REA)	Egypt	16				■	■	■	■		2002
34	66 KV Double circuit line between Dameitta P.S. / New Dameitta	Rural Electricity Authority (REA)	Egypt	10				■	■	■	■		2001
35	66 KV Double circuit line between Nakra SS / Nakra 1	Rural Electricity Authority (REA)	Egypt	15				■	■	■	■		2001
36	66 KV Double circuit line between Bani Rafea / Dir Mowas	Rural Electricity Authority (REA)	Egypt	35				■	■	■	■		2000
37	66 KV Double circuit line between El Omaid / El Alamain / El Hamra	Rural Electricity Authority (REA)	Egypt	50				■	■	■	■		2000
38	66 KV Double circuit line between Maghagha West / Maghagha	Rural Electricity Authority (REA)	Egypt					■	■	■	■		2000
39	66 KV Double circuit line between Sahl Sleem / Wadi El-Sheeh	Rural Electricity Authority (REA)	Egypt	35				■	■	■	■		2000
40	66 KV Double circuit line between New Dameitta / Dameitta Sea Port	Rural Electricity Authority (REA)	Egypt	11				■	■	■	■		2000
41	66 KV Double circuit line between Maghagha / Beba	Rural Electricity Authority (REA)	Egypt	35				■	■	■	■		1999

Major Completed Works

66 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissioning	Rehabilitation	
42	66 KV Double circuit line between Assuit / El Gameaa	Rural Electricity Authority (REA)	Egypt	30				■	■	■	■		1999
43	66 KV Double circuit line between El Koussia / Manfalout	Rural Electricity Authority (REA)	Egypt	25				■	■	■	■		1999
44	66 KV Double circuit line between El Menia East / Malawy West	Rural Electricity Authority (REA)	Egypt	35				■	■	■	■		1999
45	66 KV Double circuit line between Kom Osheem / El Bats Aboska	Rural Electricity Authority (REA)	Egypt	10				■	■	■	■		1998
46	66 KV Double circuit line between Moot / Balat	Rural Electricity Authority (REA)	Egypt	35				■	■	■	■		1998
47	66 KV Double circuit line between Abu Korkas / Dir Mowas	Rural Electricity Authority (REA)	Egypt	20				■	■	■	■		1997
48	Rehabilitation of Towers, Insulators, Conductors For 66 KV Double Circuit Line Fero / Scan	Rural Electricity Authority (REA)	Egypt	18								■	1996
49	66 KV Double circuit line between Beni Suef / Koum El Humer	Rural Electricity Authority (REA)	Egypt	40				■	■	■	■		1994
50	66 KV Double circuit line between Mahala / Samanod	Rural Electricity Authority (REA)	Egypt	25				■	■	■	■		1994
51	66 KV Double circuit line between Tema / El Ghanaim	Rural Electricity Authority (REA)	Egypt	33				■	■	■	■		1994
52	66 KV Double circuit line between Faraskor / Salam 2 South	Rural Electricity Authority (REA)	Egypt	39				■	■	■	■		1993

Major Completed Works

66 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissioning	Rehabilitation	
53	66 KV Double circuit line between Tema / El Bats	Rural Electricity Authority (REA)	Egypt	35				■	■	■	■		1990
54	66 KV Double circuit line between Samanoud / Mahala / Kafr Hegazi	Rural Electricity Authority (REA)	Egypt	16				■	■	■	■		1990
55	66 KV Double circuit line between Salam 1 , 2 / Gamila	Rural Electricity Authority (REA)	Egypt	29				■	■	■	■		1989
56	66 KV Double circuit line between Sadat / Wadi El Natroun	Rural Electricity Authority (REA)	Egypt	17.5				■	■	■	■		1989
57	66 KV Double circuit line between Tanta / El Santa	Rural Electricity Authority (REA)	Egypt	17				■	■	■	■		1988
58	66 KV Double circuit line between Zagazig / Kafr Sakr	Rural Electricity Authority (REA)	Egypt	25				■	■	■	■		1987
59	66 KV Double circuit line between El Tahrir / El Dabbaa	Ministry of Irrigation	Egypt	45				■	■	■	■		1985
60	66 KV Double circuit line between Desouk / Abu Ghenima	Rural Electricity Authority (REA)	Egypt	23				■	■	■	■		1984
61	66 KV Double circuit line between Abu Gandeer / El Shawashna	Rural Electricity Authority (REA)	Egypt	18				■	■	■	■		1984
62	66 KV Double circuit line between Branches to Kiman Fares / El Hessania / Katour	Rural Electricity Authority (REA)	Egypt	17.5				■	■	■	■		1983
63	66 KV Double circuit line between Abu Gandeer / Ahnasia	Rural Electricity Authority (REA)	Egypt	30				■	■	■	■		1983

Major Completed Works

66 KV Overhead Transmission Lines

No.	Project Name	Client Name	Location	Line length (km)	Scope Of Work								Completion Date
					Turn Key	Tower Design	Foundation Design	Civil Works	Tower Erection	Conductor Stringing	Test & Commissioning	Rehabilitation	
64	66 KV Double circuit line between Cairo Zone	Rural Electricity Authority (REA)	Egypt	45				■	■	■	■		1981
65	66 KV Double circuit line between Abu Kbeer / Faqos	Rural Electricity Authority (REA)	Egypt	14				■	■	■	■		1980

NASR CITY. ABBASSIA. CAIRO. EGYPT.
Telegram : Electrocop - Telex 92097 POWER U.N.

CERTIFICATE

TO WHOM IT MAY CONCERN

THIS IS TO CERTIFY THAT KAHROMIKA EMPLOYEES WERE WORKING UNDER THE HIGH DAM ORGANIZATION AND THEY PARTICIPATE IN EXECUTING THE 500 KV - TRANSMISSION LINES FROM ASWAN TO CAIRO WHICH IS UNDER GOOD WORKING CONDITION SINCE 1967.

ALSO RECENTLY KAHROMIKA IS WORKING IN CHANGING THE INSULATORS OF THE SAME LINES.

THIS CERTIFICATE IS PREPARED AND ISSUED UPON MISR CO. FOR MECHANICAL AND ELECTRICAL PROJECTS "KAHROMIKA" REQUEST WITHOUT ANY LIABILITY OF WHATSOEVER NATURE TO ELECTRICITY AUTHORITY (EEA).

Very Truly Yours,

Eng. Fikry A. Nawara

27.10.1993

Vice Chairman for Projects

Fujikura Ltd. OVERSEAS TRANSMISSION PROJECT DEPT.

5-1, KIBA 1-CHOME, KOTO-KU, TOKYO 135-8512, JAPAN
TEL +81-3-5606-1253, FAX +81-3-5606-1545

21 June 2008

To Whom May it Concern

This is to certify that MISR COMPANY FOR MECHNCAL & ELECTRICAL PROJECTS (KAHROMIKA) has worked with FUJIKURA LTD. in the construction of The Sidi Krir 500kV Transmission Line Contract Package No. 10045-CP-116 as his exclusive subcontractor to construct 500kV Single Circuit 3 bundle conductors transmission line between Nubaria Power Station and Sidi Krir Substation. The works include all the civil works, installation of 318 towers and 124km of conductor stringing.

The line was successfully completed on 30 April 2008.

Yours Sincerely

T. Nakamura
Project Manager

FUJIKURA LTD. Tokyo, Japan

CONSORTIUM FUJIKURA LTD. AND SUMITOMO CORPORATION

KAHROMIKA

MISR COMPANY FOR MECHANICAL AND ELECTRICAL PROJECTS

3 ElSeloulySt.Dokki,Giza,Egypt

Date: 1 August 2008

Ref No.: KHR-10-045

Dear Sirs,

TAKING OVER AND ACCEPTANCE CERTIFICATE

for

Sidi Krir – Nubaria 500kV Line

Upon satisfactory completion of the captioned line, Fujikura and Sumitomo Consortium (FSC) certify that MISR COMPANY FOR MECHANICAL AND ELECTRICAL PROJECTS (KAHROMIKA) has satisfactory completed his obligation under the contract without any delays.

This TOAC was signed and issued on 29 July 2008. However, it shall be understood that the date of issuance of this TOAC indicates the beginning of warranty periods (24 months) and it does not constitute final acceptance for the work.

Yours sincerely,

Tatsuya Nakamura, Project manager

Consortium of Fujikura Ltd. and Sumitomo Corporation

EGYPTIAN ELECTRICITY AUTHORITY
NASR CITY. ABBASSIA. CAIRO. EGYPT
TELEGRAM: ELECTROCOP – TELEX 92097 POWER U.N.

CERTIFICATE
TO WHOM IT MAY CONCERN

THIS IS TO CERTIFY THAT MISR CO. FOR MECHANICAL & ELECTRICAL PROJECTS *"KAHROMIKA"* AFFILIATED TO CONSTRUCTION AND ELECTRICITY DISTRIBUTION HOLDING COMPANY. ARAB REPUBLIC OF EGYPT PROVED HIGH CALIPER IN PERFORMING THE CONTRACTS MENTIONED IN THE ATTACHED PROJECT LIST OF THE MAJOR O . H . T . L. DURING THE PERIOD FROM 1995 UP TO DATE OF ISSUANCE OF THIS CERTIFICATE.

IN ALL OF THE SUBJECT CONTRACTS MISR CO. FOR MECHANICAL & ELECTRICAL PROJECTS " *KAHROMIKA* " FULFILLED ALL COMMITMENTS AND ITS OBLIGATIONS ASSIGNED BY THE EGYPTIAN ELECTRICITY AUTHORITY "EEA". THIS IS ALSO AUTHENTICALLY MIRRORED IN THE AWARDED PROJECTS CERTIFICATED IN THE LIST ATTACHED.

BEING KNOWLEDGEABLE ABOUT INTERNATIONAL CODES, STANDARDS, QUALITY, TERMS ... ETC. HAS LEFT A FEATURE OVER MISR CO. FOR MECHANICAL & ELECTRICAL PROJECTS " *KAHROMIKA* " CROWING ITS CONTRACTS WITH SUCCESS.

THIS CERTIFICATE IS PREPARED AND ISSUED UPON MISR CO. FOR MICHANICAL & ELECTRICAL PROJECTS " *KAHROMIKA* " REQUEST WITHOUT ANY LIABILITY OF WHATSOEVER NATURE TO EGYPTIAN ELECTRICITY AUTHORITY "EEA".

CHAIRMAN
EGYPTIAN ELECTRICITY AUTHORITY

m. A. Swidan

" Dr . Eng. : MOSTAFA ALI SWIDAN

CERTIFIED ON 11/3/98

ENG. SHERIF ABOULNASR
FIRST UNDERSECRETARY OF STATE
MINISTRY OF ELECTRICITY & ENERGY

EGYPTIAN ELECTRICITY AUTHORITY
NASR CITY, ABBASSIA, CAIRO, EGYPT
TELEGRAM; ELECTROCOP - TELEX 92097 POWER U.N.

LIST OF THE MAJOR O.H.T.L. 220 KV SINCE 1995

PROJECT NAME	ROUTE LENGTH	YEAR OF COMPL.	TOTAL VALUE
EL MANSOURA - ZAGAZIG	27 KM	1995	2,586,280 L.E
EL OMAID - EL DABAA	80 KM	1995	7,249,425 L.E
SIDI BARANI - EL SALOUM	85 KM	1996	8,195,403 L.E
SOUTH QENA - SELWA WEST	85 KM	1996	5,496,900 L.E
REHABILITATION OF HIGH DAM (INSULATORS)	85 KM	1997	7,358,760 L.E
CAIRO - SAMALOUT - ASSUIT 500 KV	85 KM	1997	500,000 L.E
AIN SOKHNA - ZAFRANA	37 KM	1997	1,846,577 L.E
LIBYA - EGYPT INTERCONNECTION (TURN KEY PROJECT)	170 KM	1997	7,990,000 L.D
ASSUIT - ABO QURKAS	110 KM	1997	9,655,911 L.E
TABA INTERCONNECTION (TURN KEY PROJECT)	247 KM	1997	51,677,640 L.E

11-3-98

EGYPTIAN ELECTRICITY AUTHORIRY
ABBASSIA. NASR- CITY, CAIRO, EGYPT
TELEGRAM: ELECTROCOP- TELEX: 92097 POWER U N

CERTIFICATE

TO WHOM IT MAY CONCERN

We are hereby under signed EGYPTIAN ELECTRICITY AUTHORITY (EEA) EGYPT certify that the SOUTH ELECTRICAL LINES CONSTRU - CTION(SELCO) UKRAINE was the leader of consortium together with the Egyptian Co. KAHROMIKA. for a contract of High Voltage Transm ission Line 220 K .V . about (275) K . M . Route, including all activities and commissioning , with a total amount equivalent to (215 00000) U.S Dollars .

The mentioned consortium had executed the project awarded to them from EEA, in the proper manner with high efficiency and precision according to technical specifieations standard and the scheduled time without any delay .

CHAIRMAN
EGYPTIAN ELECTRICITY AUTHORITY

M. A Swidan

" Dr. Eng: MOSTAFA ALI SWIDAN "

11 .3. 98

Certificate

to whom it may concern

this is to certify that Misr company for mechanical and electrical projects (KAHROMIKA) affiliated to construction and electricity distribution holding company . Arab republic of Egypt proved high caliper in performing of the following OHTL contracts:-

1-Stringing of thermal conductor of the OHTL Domiatt/Awlad Hamam 220 KV in the year of 2011 invar type – Delta zone

2- Stringing of thermal conductor of the OHTL Cairo west /Moatamedea 220 KV in the year of 2008 invar type – Cairo zone

3- Stringing of thermal conductor of the OHTL el Tibeen / Wadi Houf 220 KV in the year of 2012 GAP type – Cairo zone

In all of the subject contractor misr company for mechanical and electrical projects (main or sub.)fulfilled all commitments and its obligation assigned by the Egyptian electricity transmission company EETC.

Being knowledgeable about international codes, standards ,quality, terms…etc. Has left a feature over Misr co. for Mechanical and Electrical projects(KAHROMIKA)crowing its contracts with success.

This certificate is prepared and issued upon Misr co. for mechanical and electrical projects(KAHROMIKA) request without any liability of whatsoever nature to egyption electricity transmission company EETC .

Board Member of
Northern Zone

1-11-2012

Eng. /" Barakat Seif Amer

(105) MOH - (GH) - (68)
محمد شميس

2012-11-01

الموسسة العمومية ذات الطابع الصناعي والتجاري سونلغاز
Etablissement Public à Caractère Industriel et Commercial Sonelgaz
Direction de l'Engineering- S/Direction Reseau Haute Tension

Gue de constantine le : [illegible]

N° 1397/98/KD.L

Attestation de travail de bonne exécution

Nous soussignés , Noureddine BENKHELFELLAH . Sous Directeur par intérim de l'Engineering Réseau Haute Tension, attestons par la présente que le groupement d'Entreprises. « CONINDECT » représenté par les sociétés ELEJECT, KAHROMIKA et HIDELCO a procédé a la fourniture des pylônes et aux travaux de réalisation de la ligne 220 KV Ain Sefra - Bechar d'une longueur de 256 KM dans un délai de 24 mois.

Ces prestations et fournitures ont été exécutées suivant les normes exigées.

Cette attestation est établie pour servir et valoir ce que de droit

LE SOUS DIRECTEUR DE L'ENGINEERING
RESEAU HAUTE TENSION

ESTABISHMENT PUBLIC INDUSTRIAL AND
COMMECIAL SONELGAZ

No. 1397/98/KDL

Performance Certificate

Nour El Dien Ben Khalif Alleh Vice chairman of the engineering affairs for Overhead Transmission Lines .

Certificates that consortium " Conindect " represented by Eleject, Kahromika and Hideleco performs tower supply erection and civil works for 220 K.V Ain Safra – Bechar Length 256 KM in 24 months.

All there works made according to required specifications this certificate made under the request of the consortium.

Vice chairman for Engineering Affairs For O.H.T.L.

Cable Projects

Major 220 KV Cable Projects
Under Ground Cables

S/N	Project Name	Client Name	Location	Route Length (km)	Scope of Work					Completion Date
					Civil Works	Cable Joint	Cable Termination	Cable Laying	Turn Key	
1	Haram - Giza	Egyptian Electricity Transmission Co. (EETC)	Cairo	82	■	■				2008
2	Cairo North Power Station Cables XLPE, 1C, 1200 mm2 and Fiber Optic Cables	Egyptian Electricity Transmission Co. (EETC)	Cairo	6 X 0.3	■	■				2004
3	Somoha / Karmoz South, XLPE, 1C, 1200 mm^2	Egyptian Electricity Transmission Co. (EETC)	Alexandria	2 X 8	■	■				2002
4	Somed Pipe Line / Sidi Krir, XLPE, 1C, 1200 mm^2	Egyptian Electricity Transmission Co. (EETC)	Sidi Krir	2 X 5	■	■				1996
5	El Sabteya / Cairo North, XLPE, 1C, 1200 mm^2	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 9	■	■				1981
6	Heliopolis / Cairo East, XLPE, 1C, 1200 mm^2	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 16	■	■				1980

Major Completed 220 & 66 KV
With Directional Horizontal Driling Method

S/N	Project Name	Client Name	Location	Route Length (km)	Scope of Work					Completion Date
					Civil Works	Cable Joint	Cable Termination	Cable Laying	Turn Key	
1	Sanania Canal Crossing (Stage 1) by 66 KV, 1C, 400 mm2, XLPE Cables (66 KV, XLPE Cables)	Rural Electricity Authority (REA)	Dammita	12X0.201	■	■				2004
2	Rasheed / El Borolus, 66 KV, XLPE Cables	Rural Electricity Authority (REA)	Rasheed	8X0.610	■	■				2003
3	Suez Canal Crossing (17 m under Canal) by 220 KV, 1C, 1200 mm2, XLPE Cables	Egyptian Electricity Transmission Co. (EETC)	Suez Canal	15 X 0.745	■	■			■	2002

Major Completed 220 & 66 KV Cables Projects

Marine Cables

S/N	Project Name	Client Name	Location	Route Length (km)	Scope of Work					Completion Date
					Civil Works	Cable Joint	Cable Termination	Cable Laying	Turn Key	
1	El Mansoura / Talkha, 66 KV, XLPE Cables	Cairo Electrical Distribution Co. (CEDC)	Egypt	1.2	■	■				2003
2	Mahmoudia Canal Crossing by 220 KV, 1C, 1200 Desert Road Crossing mm^2, XLPE Cables	Egyptian Electricity Transmission Co. (EETC)	Alexandria		■	■				2000
3	Ismalia Canal Crossing by 66 KV, 1C, 400 mm2, XLPE Cables	Egyptian Electricity Transmission Co. (EETC)	Ismailia		■	■				1999
4	Ismalia Canal Crossing by 66 KV, 1C, 400 mm2, XLPE Cables	Egyptian Electricity Transmission Co. (EETC)	Ismailia		■	■				1995

Major 66 KV Cable Projects
Under Ground Cables

S/N	Project Name	Client Name	Location	Route Length (km)	Scope of Work					Completion Date
					Civil Works	Cable Joint	Cable Termination	Cable Laying	Turn Key	
1	Wadi El Sheeh / Sahel Selem S.S	Egyptian Electricity Transmission Co. (EETC)	Wadi El Sheeh	2 X 75	■					2000
2	Third and Fifth Community S.S	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 5	■	■				1999
3	6 th October 220 KV S.S - 6 Ooctober	Egyptian Electricity Transmission Co. (EETC)	6th October	14	■	■				1999
4	Third and Fifth Community S.S	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 5	■	■				1999
5	Assuit / Steam Power Station	Egyptian Electricity Transmission Co. (EETC)	Assuit	2 X 3.5	■	■				1998
6	Shoubra El Khima / Cairo North	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 6	■	■				1998
7	Assuit / Gamaa	Egyptian Electricity Transmission Co. (EETC)	Assuit	2 X 5	■	■				1997
8	Mokatam / Basaten	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 10.5	■	■				1997
9	Maadi / Basateen	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 8	■	■				1997
10	Shoubra El Khima / Bahtim	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 8	■	■				1997
11	El Dawagen / Haikstip	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 16.5	■	■				1996

Major 66 KV Cable Projects
Under Ground Cables

S/N	Project Name	Client Name	Location	Route Length (km)	Scope of Work					Completion Date
					Civil Works	Cable Joint	Cable Termination	Cable Laying	Turn Key	
12	Gezeret Al Dahab/Hadaba	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 15	■	■				1996
13	Shobra El Khima/Mansogat	Egyptian Electricity Transmission Co. (EETC)	Cairo	9	■	■				1995
14	Hadabet El Remaia	Egyptian Electricity Transmission Co. (EETC)	Cairo	2	■	■				1995
15	Helmia / Heliopolis	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 5.5	■	■				1994
16	Sheraton / Sakr Koureish	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 6	■	■				1994
17	El Dokki / Zenin	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 1.1	■	■				1994
18	Sheraton S/S Air Port	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 3	■	■				1994
19	Idial Factory / Heliopolis S/S	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 3.5	■	■				1994
20	Helmia / Amirya	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 4	■	■				1992
21	Nasr Institute / Ghamra	Egyptian Electricity Transmission Co. (EETC)	Cairo	9	■	■				1992
22	Mostafa Kamel / Gleem	Egyptian Electricity Transmission Co. (EETC)	Alexandria	9	■	■				1991

Major 66 KV Cable Projects
Under Ground Cables

S/N	Project Name	Client Name	Location	Route Length (km)	Scope of Work					Completion Date
					Civil Works	Cable Joint	Cable Termination	Cable Laying	Turn Key	
23	Abu Rawash / Zenin	Egyptian Electricity Transmission Co. (EETC)	Cairo	12.5	■	■				1991
24	Maamouraa / Abou Qir Port	Egyptian Electricity Transmission Co. (EETC)	Matrouh	18	■	■				1990
25	Abo Soltan / Shark Albohirat	Egyptian Electricity Transmission Co. (EETC)	Ismaelia	34	■	■				1990
26	Cairo North / Sabtia	Egyptian Electricity Transmission Co. (EETC)	Cairo	7	■	■				1989
27	Port Said / Wabour El Nour	Egyptian Electricity Transmission Co. (EETC)	Port Said	18	■	■				1989
28	Sakr Koureish / Rabaa El Adawia	Egyptian Electricity Transmission Co. (EETC)	Cairo	2 X 9	■	■				1989
29	Matrouh SS / Matrouh P.S	Egyptian Electricity Transmission Co. (EETC)	Matrouh	7	■	■				1989
30	Port Said / New Port Said	Egyptian Electricity Transmission Co. (EETC)	Port Said	14	■	■				1989
31	Gameilla Bouhraid / Gleem	Egyptian Electricity Transmission Co. (EETC)	Alexandria	6						1989
32	Dekhila / Agamy	Cairo Electrical Distribution Co. (CEDC)	Alexandria	60	■	■				1989
33	Ras El Tin / Somouha	Egyptian Electricity Transmission Co. (EETC)	Alexandria	10	■	■				1989

Major 66 KV Cable Projects
Under Ground Cables

S/N	Project Name	Client Name	Location	Route Length (km)	Scope of Work					Completion Date
					Civil Works	Cable Joint	Cable Termination	Cable Laying	Turn Key	
34	El Gezira/Omar El khaiam	Cairo Electrical Distribution Co. (CEDC)	Cairo	9	■	■				1988
35	Bahtim / Shobra El Khima	Cairo Electrical Distribution Co. (CEDC)	Cairo	12	■	■				1987
36	Gameila Bouhraid/ Maamouraa	Egyptian Electricity Transmission Co. (EETC)	Alexandria	5.5	■	■				1987
37	Semouha/Souk El Nahas	Cairo Electrical Distribution Co. (CEDC)	Alexandria	15	■	■				1986
38	Bahtim / North Bahtim	Cairo Electrical Distribution Co. (CEDC)	Cairo	6	■	■				1986
39	El Alamin / Giza	Cairo Electrical Distribution Co. (CEDC)	Cairo	16	■	■				1986
40	El Hadaba / Dahshor	Cairo Electrical Distribution Co. (CEDC)	Cairo	7	■	■				1986
41	Cairo East / Abdeen	Egyptian Electricity Transmission Co. (EETC)	Cairo	32	■	■				1985
42	El Hadaba / Giza	Cairo Electrical Distribution Co. (CEDC)	Giza	33	■	■	■			
43	El Amria Freezone	Egyptian Electricity Transmission Co. (EETC)	Alexandria	11.5	■	■				
44	El Amria / El Max	Egyptian Electricity Transmission Co. (EETC)	Cairo	22	■	■				

Major 66 KV Cable Projects
Under Ground Cables

S/N	Project Name	Client Name	Location	Route Length (km)	Scope of Work					Completion Date
					Civil Works	Cable Joint	Cable Termination	Cable Laying	Turn Key	
45	Bahtim / Shobra El Khima	Egyptian Electricity Transmission Co. (EETC)	Alexandria	15	■	■				
46	Cairo North / Sabtia	Egyptian Electricity Transmission Co. (EETC)	Cairo	24	■	■				
47	El Warak / El Alamin	Egyptian Electricity Transmission Co. (EETC)	Cairo	15	■	■				

CHINA NATIONAL ELECTRIC WIRE & CABLE IMP/EXP. CORP.
ALEXANDRIA OFFICE TEL/FAX: 5852858

April 3, 2001

To Whom It May Concern:

This is to certify that Misr Company for Mechanical and Electrical Project Kahromika works as our subcontractor in executing Contract ADJ 33/97 220kV Underground Low-pressure Oil Filled Cable project for Egyptian Electric Holding Company Alexandria Zone. They have done the work in Mohmodia Canal Crossing with depth of 3.5 m under the canal bed with the cables of two circuits laid in PVC pipes.

Yi Shuxia
Representative of China Cable Corp.

وزارة التعمير والمجتمعات العمرانية الجديدة والإسكان والمرافق
هيئة المجتمعات العمرانية الجديدة
جهاز تنمية مدينة ٦ أكتوبر

بسم الله الرحمن الرحيم

التاريخ / / ١٩
مرفقات .....

السيد المهندس / رئيس مجلس ادارة شركة مصر
للمشروعات الميكانيكية والكهربائية " كهروميكا "

تحية طيبة .. وبعد

بالاشارة الى أعمال الصيانة واصلاح الأعطال الكابلات للشبكات الكهربائية بالمدينة .

نشكر لسيادتكم الجهد المبذول فى اصلاح الكابلات فى زمن قياسى مما ساهم فى استقرار الشبكة الكهربائية بالمدينة طوال ٢٤ ساعة حسب حاجة العمل وذلك نتيجة جهود مجموعة العمل الخاصة بالشركة بموقع ٦ أكتوبر تحت قيادة سيادتكم .

وتفضلوا بقبول فائق الاحترام ،،،

رئيس الجهاز
مهندس /
" أحمد سمير عبد الله "
٩٥/٢/١٢

هيئة المجتمعات العمرانية
الصادر رقم ١٤٧٥
التاريخ ٩٥/٢/١٢
المرفقات :

ز / /

مع جزيل الشكر ولهذا بوخنق المستشار المفوض المدير المالى فى انتظار

رئيس مجلس الإدارة

شهادة سابقة أعمـــال

شركة مصر للمشروعات الميكانيكيه والكهربائيه

" كهروميكـــا "

مـع هيئة كهربـاء مصـــــــر

تشهد هيئة كهرباء مصر احدى هيئات وزارة الكهرباء والطاقه بجمهورية مصر العربية بأن شركة مصر للمشروعات الميكانيكيه والكهربائيه " كهروميكا " احدى شركات الـوزارة المشار اليها قد قامت خلال المده من عام ١٩٧٥ حتى فبراير سنة ١٩٩٠ بتنفيـــذ الاعمال الموضحه فيما بعد :ـ

أولا : تركيب المعدات الميكانيكيه والكهربائيه لمحطات توليد الكهرباء البخاريه

أعمال الاحلال والتجديد والتحديث لمحطات توليد الكهرباء البخاريـــه

اعمال الصيانه لمحطات التوليد البخاريه .

تركيب محطات توليد الكهرباء وحدات الديزل وملحقاتها والاعمال المدنيه- اللازمـــــه .

ثانيا : القيام بالاعمال المدنيه والتركيبات الميكانيكيه والكهربائيه لمحطات المحولات ذات الجهود ٥٠٠ ، ٢٢٠ ، ١٣٢ ، ٦٦ ، ٣٣ ، ١١ ك ف .

ثالثا : تنفيذ أعمال التركيبات والاختبارات لمشروعات التحكم للقوى الكهربائيه للشبكـه الموحـــــده .

رابعا : تنفيذ الخطوط الهوائيه لنقل وتوزيع الطاقه الكهربائيه للجهود ٥٠٠ ، ٢٢٠ ، ١٣٢ ، ٦٦ ، ٣٣ ، ٢٢ ، ١١ ك ف متضمنه الاعمال المساحيـــه والمدنيه وتوريد وتصنيع زوايا الابراج وتركيبها وشد الموصلات .

خامسا : تنفيذ اعمال مد الكابلات جهد ٢٢٠ ، ٦٦ ، ٣٣ ، ١١ ك ف .

سادسا : تركيب خزانات الوقود ذات السعات المختلفه ١٠٠٠ ، ٥٠٠٠ ، ١٠٠٠٠ ، ٢٠٠٠٠ م٣ .

وذلك طبقا للتعاقدات المحرره بشأنها عن الاعمال الموضحه تفصيليا بالكشف المرفـق والمعتمد من الهيئه وقد تم التنفيذ وفقا للشروط والمواصفات الفنيه العالميه وبكفاءة عاليه وخلال البرامج الزمنيه المتعاقد عليها وبالنسب المشار اليها قرين كل تعاقد .

وهذه شهاده منا بذلك لتقديمها لمن يهمه الامر دون ادنى مسئوليه على الهيئه .

رئيس مجلس الاداره

١٩٩٠/٧/١٠

المهندس/ " محمد السعيد عبدالله عيسى "

٩

شركة توزيع كهرباء القاهره
الاداره العامه للمراجعة
الفنيـــــه

الى من يهمـــه الأمـــــر

تحيـه طيبه وبعد :

ايماء الى طلبكـم لاعطائكـم شهادة سابقه الاعمـال من المشروعات التى قامـــت شركتكم بالقيـام لتنفيذهـا لصالح شركة توزيع كهرباء القاهره لمشروعات كابـــلات الجهد المتوسط .

رجـاء التفضل بالاحاطه بأن شركـة كهروميكـا قد قامت بأعمال حفر ومد وردم — كابلات جهد متوسط تخص شركة توزيع كهرباء القاهره ومازالت تعمل بها حتى الآن وأن أجمالى الاعمـال المقدمه منها للصرف وورد ت لنا عن طريق المراقبات الفنيـــــه وتمت تنفيذها بمعرفة الشركـه خلال المده من ١/١/١٩٩٠ حتى ٣٠/٦/١٩٩٥ بلغ أجمالى الأعمال — ر ٢٤ ٧٢٧٥٤ فقد وقدره سبعة مليون ومئتان وخمسه وسبعون ألفا واربعمائه واربعة وعشرون جنيها فقط لاغير) .

وذلك قبل خصم التأمينات والضرائب وكافة الاستقطـاعات الاخرى .

رجـاء التفضل بالاحاطه دون أدنى مسئولية على الشركـة .

مدير أدارة المراجعة الفنيـــه
مهندس / غالى عازر سوريال

رئيس قطـــاع الشمـال
مهندس (بصر الدين محمود بدر)

تحريرا فى / / ١٩

شركه مصر للمقاولات الميكانيكيه والكهربائيه (كهروميكا)
٢ ش الكولى - دقى - جيزه

Wind Farm Projects

Wind Farm Past Experience

No.	Project Name	Client Name	Location	Main Contractor	Scope of Work	Completion Date
1	Zafarana 120 MW Wind Farm	Egyptian New & Renewable Energy Authority (NREA)	ZAFARANA Egypt	GAMESA EOLICA	1 - Installation of all electrical equipment. 2 - Supply local materials.	2009
2	Zafarana 80 MW Wind Farm	Egyptian New & Renewable Energy Authority (NREA)	ZAFARANA Egypt	GAMESA EOLICA	1 - Installation of all electrical equipment. 2 - Supply Local materials.	2008

GES
Global Energy Services

ZAFARANA WIND FARM 80 MW / KFW4 PROJECT

PROVISIONAL TAKING OVER AND ACCEPTANCE CERTIFICATE

On the date of May 14, 2008, GES EGYPT Ltd Provisionally receives and accepts the electrical installation works related to the Contract for the electrical installation of Zafarana Wind Farm 80 MW/ KFW4 project signed between GES EGYPT Ltd. and MISR COMPANY FOR ELECTRICAL AND MECHANICAL PROJECTS, KAHROMIKA.

This certificate doesn't exempt KAHROMIKA of its obligations during the warranty period or of any other obligation like specified in the contract or in separate agreement related to the contract. The pending works that must be completed by KAHROMIKA is the works related to the Meteorological Tower as specified in the contract.

KAHROMIKA
Name: Ahmed Amin Amer
Signature:

GES EGYPT Ltd.
Name: Mohamed Nawar
Signature:

GES Egypt, Ltd.
12 Dar El Shefa St, 3rd floor
Garden City, Cairo

ZAFARANA WIND FARM 120MW / JBIC PROJECT

PROVISIONAL TAKING OVER AND ACCEPTANCE CERTIFICATE

On the date of 26 july 2009, at 00:00, GES EGYPT Ltd Provisionally receives and accepts the electrical installation works related to the Contract for the electrical installation of Zafarana Wind Farm 120 MW / JBIC project signed between GES Egypt Ltd and MISR COMPANY FOR ELECTRICAL AND MECHANICAL PROJECTS, KAHROMIKA.

This certificate doesn't exempt KAHROMIKA of its obligations during the warranty period or of any other obligation like specified in the contract or in separate agreement related to the contract.

The guarantee period includes also the guarantee of the items purchase by GES to kahromika according with the purchase order 001, date 22-06-2008.

The pending work that must be completed by KAHROMIKA is the works related to the supply and installation of terminals and/or cable reducers damage.

KAHROMIKA

Name: Ahmed Amin Amar

Signature:

GES EGYPT Ltd

Name:

Signature:

GES Egypt Ltd.
12 Dar El Shefa St, 3rd floor
Garden City, Cairo

List of Implemented Procedures

Annex (E) for the implicated procedure

N	Document No.	Document Name
1	P.4.1	Preparation , Document control and Data
2	P.4.2	Monitoring & Control of Records
3	P.5.1	Management Review
4	P.6.1	Human resources
5	P.6.2	Competence, Training and Awareness
6	PM.6.6	Maintenance of Fabrication machines
7	PM.6.7	Maintenance of Heavy & Light Duty Equipment
8	P.7.1	Tenders Studying, and Contracts Reviews
9	PM.7.1	Tenders Studying, and Contracts Reviews for Factory
10	P.7.2	Marketing
11	P.7.3	Evaluation and Examining Suppliers
12	P.7.4	Procurement
13	P.7.5	Project Procurement
14	P.7.6	Kick off meeting (Projects Planning)
15	P.7.7	Planning and Monitoring
16	PM.7.7	Factory Planning and Monitoring
17	P.7.8	Subcontractor Evaluation and Selection
18	P.7.9	Identifying and Traceability
19	P.7.10	Control of Customer Supplies
20	P.7.11	Storage , Handling & Preservation of Materials
21	P.7.12	Project turn- over to customers
22	P.7.13	Control of Measuring and Monitoring Devices
23	P.8.1	Internal Audits , Corrective & Preventive Actions
24	P.8.2	Quality Control of Works
25	PM.8.2	Quality Control of Fabrication Works
26	P.8.3	Control of Non-Conforming Products and Guarantee Services
27	P.8.4	Statistical Techniques & Data Analysis

Annex (C) Procedure documented list for EMS

S.N.	Document No.	Document Name
1	P.4.1	Preparation , Document control and Data
2	P.4.2	Monitoring & Control of Records
3	P.5.1	Management Review
4	P.6.2	Competence, Training And Awareness
5	P.7.3	Evaluation and selection of suppliers
6	P.7.8	Evaluation and selection of subcontractors
7	P.8.1	Internal Audits , Corrective & Preventive Actions
8	PS.3.2	Legal and other requirement
9	PS.3.3	Objectives, targets and programs
10	PS.4.3	Communication, Participation and Consultation
11	PS.4.6	Operational Control
12	PS.4.7	Emergency Preparedness and Response
13	PS.5.1	Performance measurement and monitoring
14	PS.5.2	Evaluation of Compliance
15	PS.5.3	Incident, Investigation, Nonconformity, Corrective Action and Preventive Action
16	PE.3.1	Environmental Aspects and Impacts
17	WE.4.601	Liquid Wastes Control
18	WE.4.602	Solid Wastes Control
19	WE.4.603	Medical Wastes Control
20	WS.4.612	Contractors Controls

C- Procedure documented list for OH&S

serial	Code no.	Procedure name
1.	PS.3.1	Hazard identification, risk assessment and determining controls
2.	PS.3.2	Legal and other Requirement
3.	PS.3.3	Objectives, targets and programs
4.	PS.4.3	Communication, Participation and Consultation
5.	PS.4.6	Operational Control
6.	PS.4.7	Emergency Preparedness and Response
7.	PS.5.1	Performance measurement and monitoring
8.	PS.5.2	Evaluation of Compliance
9.	PS.5.3	Incident, Investigation, Nonconformity, Corrective Action and Preventive Action
10.	P.4.1	Preparation ,Document control and Data
11.	P.4.2	Monitoring & Control of Records
12.	P.5.1	Management Review
13.	P.6.2	Competence, Training and Awareness
14.	P.7.3	Evaluation and selection of suppliers
15.	P.7.8	Evaluation and selection of subcontractors
16.	P.8.1	Internal Audits, Corrective & Preventive Actions