

# شركة مصنع المرحلات الكهربائية ELECTRICAL Relays Factory Co.

**OUR GOAL BREAK THE MONOPOLY AND  
COMPETITION IN SAUDI MARKET**

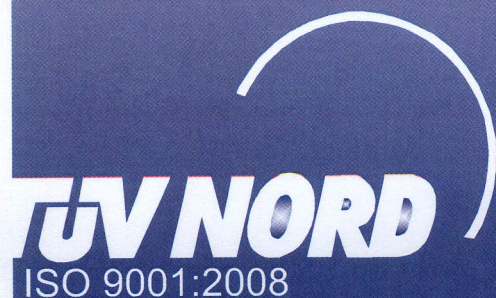


بترخيص من شركة تفريدا اليكتريك  
**With LICENSE FROM TAVRIDA ELECTRIC**



Kingdom of Saudi Arabia  
Tel.: 4986479 - 4986958 - 2821328  
P.O.Box 101709 Riyadh 11665  
Email: ahmedenin@erelaysgroup.com

المملكة العربية السعودية  
تليفون : ٤٩٨٦٤٧٩ - ٤٩٨٦٩٥٨ - ٢٨٢١٣٢٨  
فاكس : ٤٩٨٦٩٥٦  
ص . ب . ١٠١٧٠٩ الرياض ١١٦٦٥  
WWW.erelaysgroup.com





## Electrical Relays Factory Co.

Defence Industrial Area, P.O.Box 101709  
Riyadh 11665 KSA

TEL.: 4986958 - 4986479

FAX.: 4986956

WWW.erelaysgroup.com

MANUFACTURING PANELS,PACKAGE SUB-STATIONS AND ASSEMBLY OF  
THE MILE SWITCHGEAR AND RETROFIT

*Our products are based upon the advanced modern technology high performance to  
withstand several environmental conditions as per Saudi Arabian standards.*

Electrical Relays Factory Co.



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## **Introduction**

Electrical Relays Factory Co. was established under the name of (ERSF) Electrical Relays Specialist Factory for Panel Board is a 100% wholly owned Saudi Company, Specialist for manufacturing Electric Panel Board, Medium Voltage Switchgear, and Package Substation, motor and Control Center. Electrical Relays Specialist Factory for Panel Board Co. have paid up Capital of 2,75,000 S.R.

In 2004 Electrical Relays Specialist Factory had been produced electrical Distribution Panel Boards and M.V. Substations, It was limited for Electrical Relays Est. working projects

Our products coverage Package Substations for Power Transmissions and for Lighting and also we manufacture all size of Distribution Boards, Low Voltage and Medium Voltage also we can make small boxes for control and for communications works. Our factory is equipped with all latest technology machineries such as hydraulic systems for sheet cutting & bending and punching, hydraulic systems for bus bars cutting & bending and punching and also equipped with complete set of painting such powder coating, spray painting. Control systems are achieved through latest software in computers and we have appointed highly skilled technicians with big experiences in manufacturing panel boards.

## **Products:**

Our products are based upon the advanced modern technology high performance to withstand several environmental conditions as per Saudi Arabian standards. Our products coverage Package substations for power transmissions and for lighting and also we manufacture all sizes of distribution boards, low voltage and medium voltage switchgears also we can make small boxes for control and for communications works.



### **Service:**

Right from the offer stage, our engineering department looks after estimating, designing as per customer's requirements. And also provides a technical support if required along with drawing layouts. After sales we guarantee for the duration of one year for any defects against manufacturing. We are well known for after sales service, which in turn brings repetitive orders from the government sectors as well as from the private sectors. Also we have continuity of service through maintenance contracts.

### **Factory Setup:**

Our factory is equipped with all latest technology machineries such as hydraulic systems for sheet cutting & bending, hydraulic systems for bus-bars cutting & bending and punching and also equipped with complete set of painting such powder coating, spray painting. Control systems are achieved through latest software in computers and we have appointed highly skilled labors technicians as well as engineering.

### **Standard Products:**

Contains the following high standard products:

M.V. Switchgear and Breakers TAVRIDA (TEL)

M.V. Switch gears Saudi Lucy & Merlin Ggerin.

M.V. & L.V. Transformers S.T.C. & Borra and etc.

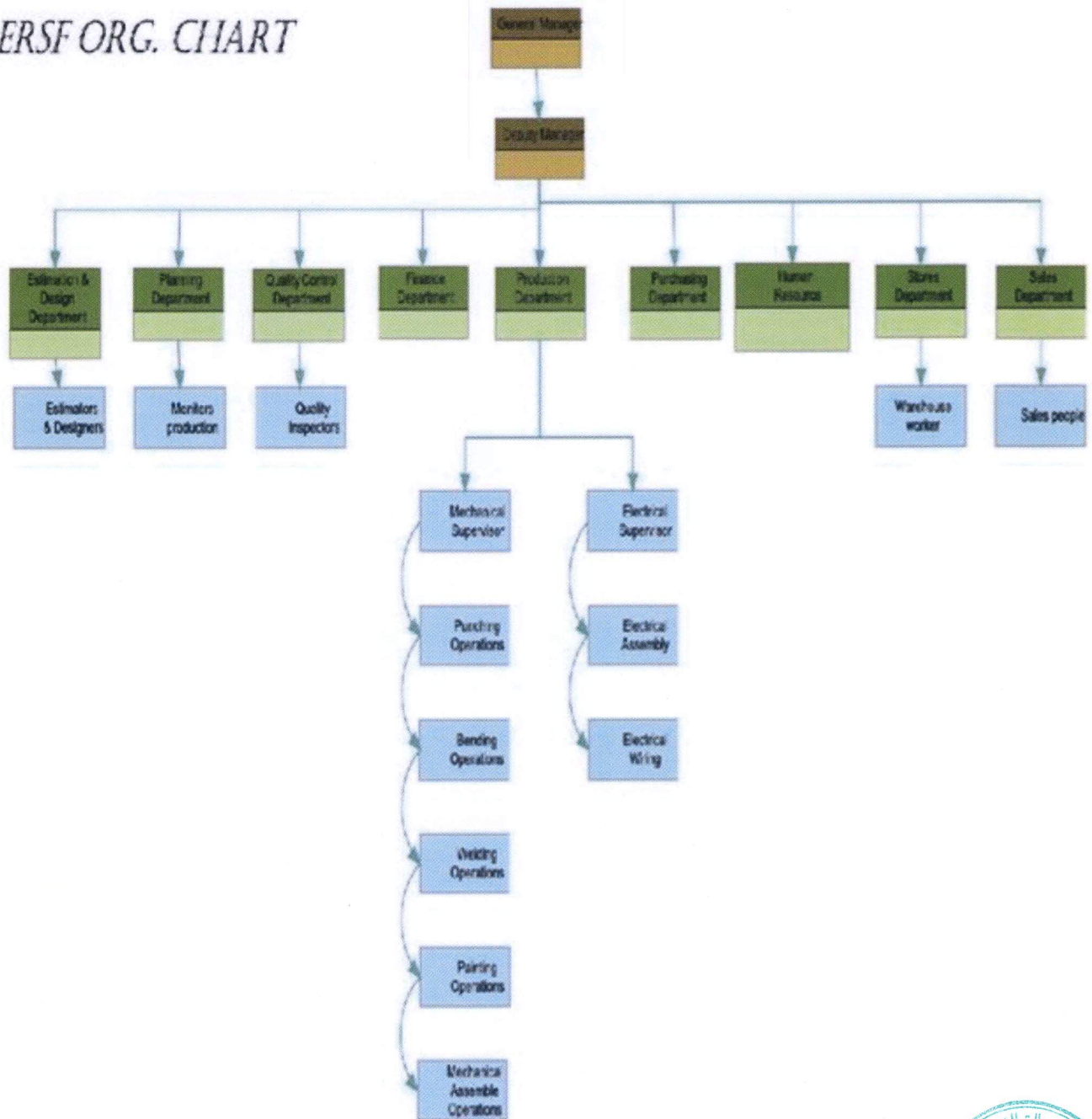
L.V. Switch gears Merlin Gerin (M.G.), Mitsubishi and Middle East circuit breakers (MEMF).

Control relays and accessories Telemecanic and Mitsubishi.



# Factory Org. Chart

ERSF ORG. CHART







## شهادة

بفيد مكتب العمل بمنطقة الرياض بأن: فرع مؤسسة المرحلات للمقاولات  
لصاحبها/ طلال منصور الحريبي

رقم الحاسب الآلي: ١-١٨٩٩٨٦

✓ ملتزمة بما يوجب تحقيق السعودية المحددة.

✗ لا يسري عليها تطبيق النسبة المطلوبة لزيادة السعودية.

وقد منحت هذه الشهادة وفق تعميم صاحب السمو الملكي وزير الداخلية

رقم ٤٧٥/ع وتاريخ ١٤٢١/٦/١٨ هـ وذلك بناءً على طلب المنشأة.

وتعتبر سارية المفعول لمدة: عام من تاريخه

عبدالله  
١٤٢١

المدير العام

بمكتب العمل بمنطقة الرياض المكلف

محمد بن حسن القصير  
١٤٢١



١٤٢٢/٠١/١٥

٢٦١/ط

المرفقات:

التاريخ:





Date: 13<sup>th</sup> Jan 2010

**TO WHOMSOEVER IT MAY CONCERN**

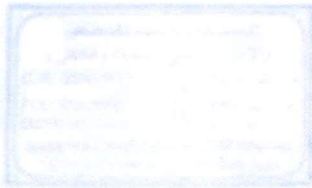
This is to certify that **Electrical Relays Factory (ERSF)** has entered into a consultancy contract with National Inspection & Technical Testing Co. Ltd. (FAHSS/TUV Saudi Arabia), to prepare them for ISO 9001:2008 Certification. It is expected that **Electrical Relays Factory (ERSF)**, will be ready for certification by end of Jun<sub>2</sub><sup>013</sup>.

This letter has been issued at the request of our client **Electrical Relays Factory (ERSF)**, to meet any specific purpose, as and when applicable.

On behalf of

**National Inspection & Technical Testing Co. Ltd.**  
(FAHSS/TUV Saudi Arabia)

**TARIEF M. RASHEED**  
Manager - QMS Division



**Branches :**

**FAHSS / TUV Jubail (Technical Inspection Services)**  
Tel. : (+966) 03 340 7607 / 7608 / 7609 / 7910 - Fax (+966) 03 340 7605  
E-Mail: info@fahsstuv.com - Website: http://www.fahsstuv.com  
**GEMS - Jubail (Calibration Service)**  
Tel. (+966) 03 341 9451, 341 9452, 341 9453 - Fax (+966) 03 341 7628  
E-Mail: info@gems-calibration.com , Website: http://www.gems-calibration.com

الفرع:  
فحص / تي يو في الجبيل (خدمات الفحص والاختبار الفني)  
تفويض: ٢٢٤٠٧١٠٤/٢٢٤٠٧١٠٥/٢٢٤٠٧١٠٦/٢٢٤٠٧١٠٧/٢٢٤٠٧١٠٨/٢٢٤٠٧١٠٩/٢٢٤٠٧١٠١٠  
الهوية الإلكترونية: info@fahsstuv.com ، موقع الإنترنت: http://www.fahsstuv.com  
مختبر جيمس - الجبيل (خدمات المعايرة)  
تفويض: ٢٤١٩٤٥١/٢٤١٩٤٥٢/٢٤١٩٤٥٣/٢٤١٩٤٥٤/٢٤١٩٤٥٥  
الهوية الإلكترونية: info@gems-calibration.com ، موقع الإنترنت: http://www.gems-calibration.com

Electrical Relays Factory Co.





**ANNOUNCEMENT OF SUPPLIER REGISTRATION**

Date : 04/06/2010

**ELECTRICAL RELAYS SPECIALIST FACTORY**

FAX NO.: 01/4986956

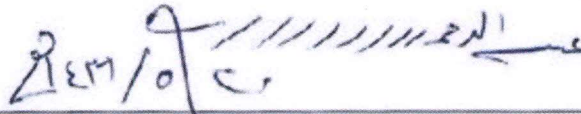
Gentlemen:

We would like to thank you for your interest in being a supplier for Royal Commission In Jubail .

This is to acknowledge that your registration request and documentation have been reviewed and accepted. Royal Commission in Jubail- Supply Management Department has registered your Company/Establishment under vendor number 13241

To participate in the Royal Commission's supplies and material requests, your Company/Establishment have to followe up with advertisement that published on local newspapers, or posted on the Supply Mngement Bulletin Board, and on the Royal Commission Web-Site.

Very truly yours,

  
**A. I. AL-JELOUZ**  
Purchasing Manager  
Supply Management Dep.

**عبدالرحمن بن ابراهيم الجلعوز**  
رئيس قسم المشتريات  
إدارة المشتريات والمستودعات

Electrical Relays Factory Co.

**إخطار بتسجيل مورد**

التاريخ : ٢٠/٠٥/١٤٣١هـ

مصنع المرحلات الكهربائية

فاكس رقم: ٠١/٤٩٨٦٩٥٦

السلام عليكم ورحمة الله وبركاته،

نقدر لكم رغبتم بان تكونوا احد الموردين المعتمدين لدى الهيئة الملكية بالجبيل.

وهذا الإشعار لتلبية طلبكم للتسجيل لدينا بموجب المستندات الرسمية المقدمة التي تمت مراجعتها والموافقة عليها. علماً بأن الهيئة الملكية بالجبيل- إدارة المشتريات والمستودعات سجلت شركتكم/مؤسستكم تحت الرقم ١٣٢٤١

ولكي يتسنى لكم الدخول في التوريد وطلبات المواد التابعة للهيئة الملكية بالجبيل، يرجى منكم متابعة الإعلانات التي يتم نشرها في الصحف المحلية ولوحة الإعلانات الخاصة لإدارة المشتريات والمستودعات، وكذلك على الشبكة الإلكترونية للهيئة الملكية.

ولكم تحياتي،





الشركة السعودية للكهرباء  
Saudi Electricity Company

منطقة أعمال الوسطى  
هاتف: ٢٢٢٢٢ - ١٠٢ - ٩٦٦  
فاكس: ٧٢٢ - ١٠٥ - ٩٦٦  
P.R.CEN@SCECO.COM  
ص.ب ٥٧١  
الرياض ١١٤١١  
المملكة العربية السعودية

MAIN DISTRIBUTION NETWORK  
OPERATIONS DEPARTMENT

إدارة عمليات شبكة التوزيع الرئيسية

دائرة الصيانة

هاتف: ٢٢٢٢٧ فاكس: ٤٠٥٢٤٠١

٩٦٦٦ - ١٠٢ - ١٠٥ - ٧٢٢

REF. NO: 04109201- 42 -11  
DATE: 03 / 05 / 2011 G  
29 / 05 / 1432 H

To : MANAGER  
Electrical Relays Specialist Factory for Panels

Sub. : Pre-Qualification, Retrofit of Reyrolle  
13.8kV Switchgear

Ref. : ERSF/SEC/RETROFIT/LMT/03042011

Greetings,

In reference to your letter with reference number ERSF/SEC/RETROFIT/LMT/03042011 dated 3<sup>rd</sup> of April 2011 the retrofitted **Reyrolle Switchgear** where the existing **Oil Circuit Breaker** (400A, 13.8kV) was replaced with **TAVRIDA Vacuum Circuit Breaker** (630A, 13.8kV) and it was installed and put in service in S/S 7110 last 15<sup>th</sup> of February 2011.

The equipment has been monitored and observed for any abnormalities and found to be performing well without any defects up to the present. No remarks been raised due to satisfactory results.

For your information and reference, thanks and best regards.



ENG'R. MAGBEL S. AL-OTAIBI  
MANAGER, DIST. S/S MAINT. DIVISION

3/5/2011



Electrical Relays Factory Co.



**Saline Water  
Conversion Corporation**  
Riyadh Olaya King Fahd Road  
P.O. Box: 5968 Riyadh 11432  
Kingdom of Saudi Arabia  
Tel: 4631111 Fax: 4631111/1001  
www.swcc.gov.sa

الهيئة العامة  
لتحلية المياه المالحة  
الرياض العليا طريق الملك فهد  
ص.ب. ٥٩٦٨ الرياض ١١٤٣٢  
المملكة العربية السعودية  
هاتف: ٤٦٣١١١١ - فاكس: ٤٦٣١١١١/١٠٠١  
www.swcc.gov.sa

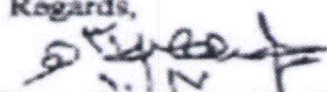
DATE : 26 September 2010  
TO : **ELECTRICAL RELAYS SPECIALIST**  
ATTN. : Engr. Talal Mansour Al Huraibi  
General Manager  
FAX : 498 6956  
SUB : REGISTRATION

With reference to the submission of Documents of your Company dated 09.10.1431H. Please be informed that your Company is registered with SWCC. But registration does not mean that your Company is Prequalified.

The field of specialization of your company comes into the category of subcontractors. And subcontractors are prequalified only through the Main Contractors executing SWCC projects.

Hence, you are advised to contact the Main Contractors and complete the necessary requirements with them.

Regards,

  
Engr. Mohammed Abdullah Al-Dakheel  
Manager Prequalification Department,  
SWCC Riyadh, Saudi Arabia

**FAKED**

التلفونات:

26-09-2010

الفاكس:

18/10/11

الرقم:

Received Fax

No.	Date	Attn:
1	26/09/2010	

Electrical Relays Factory Co.





Ref. No. : \_\_\_\_\_  
Date : \_\_\_\_\_  
Encl : \_\_\_\_\_

الترقيم : \_\_\_\_\_  
التاريخ : \_\_\_\_\_  
المرقعات : \_\_\_\_\_

لمن يهمة الامر

التاريخ: ١٤-٠٦-١٤٣٢ هـ

المحترمين

السادة/ مؤسسة ومصنع المرحلات الكهربائية  
ص ب ١٠١٧٠٩ الرياض ١١٦٦٥  
ت ٤٩٨٦٩٥٨/٤٧٢٧٩٠٢ (+٩٦٦١)  
ف ٤٩٨٦٩٥٦/٤٧٢٧٥٣٠ (+٩٦٦١)

السلام عليكم ورحمة الله وبركاته

إشارة الى طلبكم بتزويدكم مايفيد حسن أداء وسلامة التركيبات والتشغيل لما تم تركيبه، وذلك باستبدال قواطع جهد متوسط في مختلف قطاعات وزارة الأعلام نفيديكم بأن جميع التركيبات مازالت تعمل بدون أى مشاكل في القطاعات التالية:-

- ١- مشروع محطة رأس الزور الأذاعية بالمنطقة الشرقية استبدال قواطع نوع 3CBO44 # عدد ١٨ قاطع من نوع تافريدا الكترينك ISM/TEL-12-20 منذ تاريخ ٢٠٠٥/٠٥/٠٩ م.
  - ٢- مشروع مبنى التلفزيون بالرياض استبدال قواطع بالعربة نوع 8BD1 # عدد ٦ قاطع من نوع تافريدا الكترينك ISM/TEL-12-20 منذ تاريخ ٢٠٠٩/١١/١٠ م.
  - ٣- مشروع محطة الخمرة الأذاعية بجدة استبدال قواطع نوع HKK12/812 # عدد ١ قاطع من نوع تافريدا الكترينك ISM/TEL-12-20 منذ تاريخ ٢٠١٠/٠٧/١٥ م.
- وهذا خطاب منا يفيد بجودة الأعمال المقدمة والتي مازالت تعمل في القطاعات المذكورة حتى تاريخه لتقديره لمن يهمة الأمر .

مع أطيب تحياتي.....

مدير إدارة التموين بوزارة الثقافة والأعلام

م/محمد بن عبدالعزيز الميمان





Ref. No. : \_\_\_\_\_

Date : \_\_\_\_\_

Encl : \_\_\_\_\_

**To whom it may concern**

الرقم : \_\_\_\_\_

التاريخ : \_\_\_\_\_

المرفقات : \_\_\_\_\_

**Riyadh : 23/5/2011**

**ISSUED: Ministry of Culture and Information, Engineering Affairs, Supply Department.**

**CONTRACTED: Electrical Relays Specialist Factory (Licensee of Tavrida Electric in Saudi Arabia)**

**PLACE OF INSTALLATION AND PRODUCTS SUPPLIED:**

**1. Television Complex, Riyadh, Kingdom of Saudi Arabia.**

*Supply date: 10/11/2009  
Number of retrofitted units: - Six*

Existing switchgears , Type # 8BD1- load-break switch- (12 kV) retrofitted with  
**TAVRIDA ELECTRIC Vacuum Circuit Breaker (12kV).**

**2. RAS AI- ZOR Radio Station in Eastern Region, Saudi Arabia.**

*Supply date: 09/05/2005  
Number of retrofitted units: 18*

Existing switchgears , Type # 3CBO44- load-break switch- (11 kV) retrofitted with  
**TAVRIDA ELECTRIC Vacuum Circuit Breaker (12kV).**

**3. AL-Khumra Radio station in Jeddah, Saudi Arabia.**

*Supply date: 15/07/2010  
Number of retrofitted units: - One*

Existing switchgears , Type # I1KK12/812- load-break switch- (12 kV) retrofitted with  
**TAVRIDA ELECTRIC Vacuum Circuit Breaker (12kV).**

**SERVICES CONTRACTED:**

Supply, installation, commissioning and personnel training.

***We declare that all provided products and services were compliant with our requirements, are in service till today and projects have been performed without delay.***

Director Of Supply Dept.

Name Eng : Mohamed Al - Maiman  
Tel.: 01-4425060  
Fax.:01-4425025



المملكة العربية السعودية

فاكس

هاتف

الرمز البريدي

ص . ب

P.O.Box

Tel.

Fax

Kingdom of Saudi Arabia

Electrical Relays Factory Co.



## A List of major machines of Electrical Relays Factory Co.

S.No.	Equipment Id.	Equipment Description	Manufacturer	Year of Manufacturing
1	001	CNC Punching VISE 1250 With 36 Station ( TAILIFT )	Taiwan	2005
2	002	CNC Punching Machine ( VULCANO ) 30/750	Italy	1999
3	003	Hydraulic Press Brake LVD Bending Machine (250 Ton - 3m)	Taiwan	2001
4	004	NC Hydraulic Swing Beam Shearing Machine ( 1mm - 5mm )	India	2004
5	005	Hydraulic Iron Workers and Punching Machine (Nova Press)	Germany	2004
6	006	Hydraulic Section Bending Machine ( SHANIRA )	India	2004
7	007	Notching Machine ( INDUMASCH Siegen Type 130 )	Italy	2004
8	008	Drill machine ( SEW 25 MIMAK )	India	2004
9	009	Bend Saw ( KARMETAL San and TIC.LTD.STI ) ( Model - KMT2800 SA)	Turkey	2005
10	010	Powder Coating Power coating line	Iran	2004
11	011	Air Compressor (500 Litres. SIMCO )	China	2009
12	012	Spot Welding Machine ( 8800KAM)	UK	2002
14	014	Bus Bar Bending Machine ( NSB - 601 3 in 1 )	Korea	2005
15	015	Portable Bus Bar Cutting Machine (Nova Press)	Germany	2005
16	016	Electric Arc Welding Machine ( ESAB THF 400)	China	2004
17	017	MNI TIG welding plant ( TG - 250 )	China	2007
22	022	Stud welding Machine	UK	2004
23	023	MIG Welding Machine (MIG 195)	China	2007
24	024	Hydraulic Press Brake WC67K Bending Machine 160/3200	China	2007
25	025	Hydraulic Press Brake WC67K Bending Machine 40/1320	China	2008
26	026	Hydraulic Press Brake WC67K Bending Machine 63/2000	China	2008
27	027	Hydraulic Press Brake QC12K Shearing Machine 6/3200	China	2007
28	028	Drill machine ( SEW 23 MIMAK )	India	2004
29	029	Pipe Bender Machine (SAHINLER HPK - 50)	Italy	2005
30	030	Bus Bar Machine Cart (BAYA)	Iran	2010
31	031	Hydraulic Iron Workers and Punching Machine (Paradise)	India	2004
32	032	Laser Engraving Machine model (MA-9060)	China	2010

Electrical Relays Factory Co.



# A List of major machines of Electrical Relays Factory Co. (Arabic Name)

قائمة هكلا تلاحر ملا عنصم فكرش يف توجو ملا تانيكاملا

نويبات	تادعلا فصو	تادعلا فرعم	لساست
نويبات	رنوييمكلا مادختسلب ميرخت تتيكام (VISE 1250 With 36 Station) CNC	٠٠١	١
ايلاطيا	ميرخت تتيكام CNC (30/750) (VULCANO)	002	٢
نويبات	تيكلوريديه بنت تتيكام LVD لمار فلا طغضب (250) نط - 3 م )	٠٠٣	٣
دنهلا	(5 مم - 1 مم) CNC تيكلوريديه عيطقت تتيكام	00٤	٤
ايناملا	تيكلوريديه ميرختلاو دينحلا لامع تتيكام (NOVA Press)	٠٠٥	٥
دنهلا	عطقلا ينثل تيكلوريديه تتيكام (SHANIRA)	٠٠٦	٦
ايلاطيا	ميرختلاو عطقلا تتيكام (INDUMASCH Siegen Type 130)	٠٠٧	٧
دنهلا	بقت تتيكام (SEW 25 MIMAK)	٠٠٨	٨
ايركت	(KARMETAL San and TIC.LTD.STI) (Model-KMT2800 SA) تتيكام رشن	٠٠٩	٩
ناريا	ساقم) ناهد تدهو (4000x3000x3500)	010	١٠
نيصلا	(SIMCOءاوه طغاض 500 رئل )	٠١١	١١
ايناركوأ	تعقب ماحل تتيكام (KAM 8800)	٠١٢	١٢
نيصلا	تعرس تاذ تيودي عطق تتيكام قلاع (MAKITA Japan)	٠١٣	١٣
ايروك	ساحنلا تراب بنت تتيكام (NSB - 601 3 IN 1)	٠١٤	١٤
ايناملا	ساحنلا تراب عيطقت تتيكام (Nova Press)	٠١٥	١٥
نيصلا	بير هكلا سوقلاب ماحل تتيكام (ESAB THF 400)	٠١٦	١٦
نيصلا	ماحل تادعم MINI TIG (TG- 250)	٠١٧	١٧
نابايلا	عطق راشنم (MAKITA)	٠١٨	١٨
نابايلا	نحط تتيكام (MAKITA)	٠١٩	١٩
نابايلا	تصغار تادعم	٠٢٠	٢٠
نابايلا	تيودي بقت ؤلا (MAKITA)	٠٢١	٢١
ايناركوأ	رامسم ماحل تتيكام	٠٢٢	٢٢
نيصلا	لماخلا ز اغلاب تادعم ماحل تتيكام (MIG 195)	٠٢٣	٢٣
نيصلا	تيكلوريديه بنت تتيكام WC67K لمار فلا طغضب (3200/160)	٠٢٤	٢٤
نيصلا	تيكلوريديه بنت تتيكام WC67K لمار فلا طغضب (1320/40)	٠٢٥	٢٥
نيصلا	تيكلوريديه بنت تتيكام WC67K لمار فلا طغضب (2000/63)	٠٢٦	٢٦
نيصلا	تيكلوريديه عطق تتيكام QC12K لمار فلا طغضب (3200/6)	٠٢٧	٢٧
دنهلا	ميرخت تتيكام (SEW 23 MIMAK)	٠٢٨	٢٨
ايلاطيا	بيباتا بنت تتيكام (SAHINLER HPK - 50)	٠٢٩	٢٩
نيصلا	رزبلااب تحنلا تتيكام (Model : MA 9060)	٠٣٠	٣٠

Electrical Relays Factory Co.



# Factory Capability

- **Distribution Panel:**

ERSF has the capacity to design and manufacture all kinds of distribution boards with different capacities and many purposes according to international standards or requirements of the project or the client in line with quality standards.



Electrical Relays Factory Co.



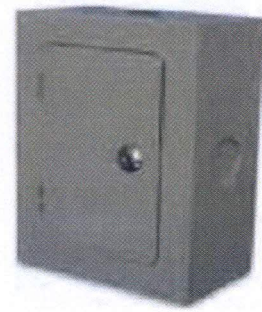
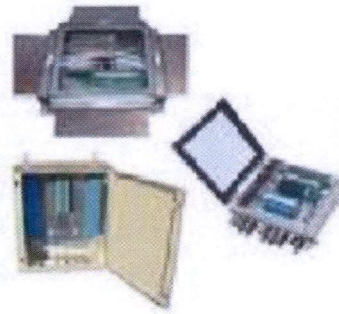
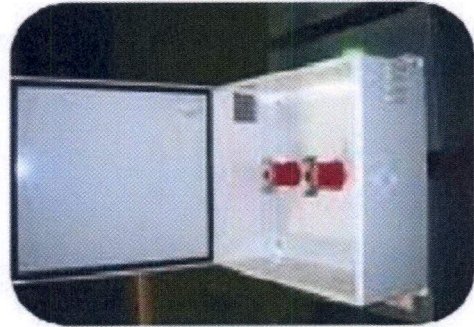
• **Package Substation:**

The factory has manufactured many of the package substations (RMU-Transformer-LV panel), including lighting package substations, plants and distribution package substations for many customers, for example, the National Guard - Riyadh Municipality.



• **Junction Box:**

These boxes are a type of electrical products used in the work of connecting cables and the distribution simple process of low voltage and the plant has experienced in this type of special product.



• **Control Box:**

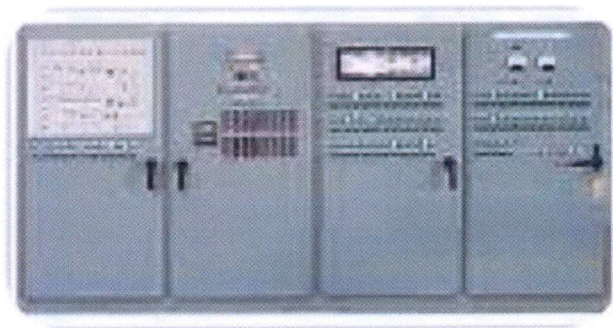
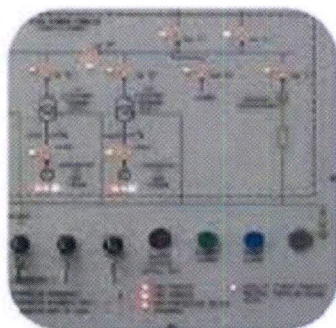
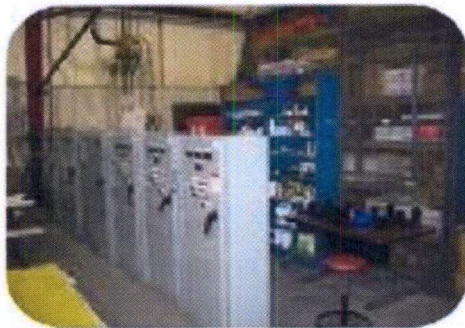
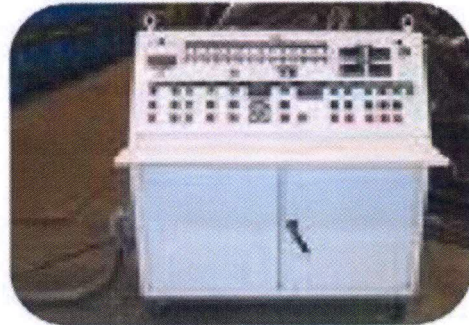
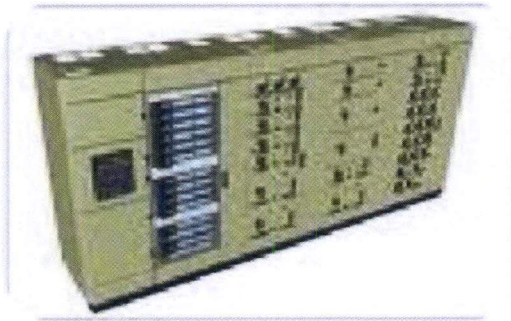
The factory has designed and manufactured many of the funds control for generators, fire fighting pumps, fuel stations and other funds by the requirements of the site.



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• **Control Panels:**

These panels are used in the operation and management of water plants - Irrigation - drainage & large-scale projects, including industrial, agricultural and livestock. And take these panels many shapes like MEMC-DISK-REMOTE and our factory has good experience in all this type.



• **Protection Panels:**

To the factory many precedents in this type of work, which often makes the Saudi Electricity Company to provide network monitoring and record faults and provides protection against failure, thus ensuring the continuity of the work of the electricity network efficiently.



Electrical Relays Factory Co.



• **M.V. Switch gear:**

ERSF one of national leader in the manufacture medium voltage cells initially 13.8 and 33 second stage under license from the TAVRIDA Europe, And conformity to specifications of Saudi Arabia and international standards, With the provision of technical support and spare parts within the Kingdom and the Gulf region shortly.

**ELECTRICAL RELAYS SPECIALIST  
FACTORY FOR PANELS**

**MV switchgear to IEC 62271-200**



**ETALON Intelligent RMU**

ETALON is 12kV solid-insulated intelligent RMU and switchgear. ETALON switchgear is a highly integrated multifunctional panel featuring a very compact extensible 100-line metal-enclosed 10 20 PM design.



**MILE switchgear**

MILE switchgear is a metal-enclosed air-insulated panel conforming to IEC category 2B and pollution class PM2 designed for indoor installations in 12, 17.5, 24 and 36kV electrical networks. MILE switchgear is internal Arc Classified as AFI 2.5 kA Is.



**ENGINEERING YOUR POWER**      [www.erelays-ksa.com](http://www.erelays-ksa.com)

Electrical Relays Factory Co.



• **M.V Retrofit:**

We are in a factory electrical relays put in the hands of our clients twenty years experience in the field of maintenance and rehabilitation of partitions and a set of keys MV 13800 and 33000 volts at the highest levels of technology available in the world market in cooperation with a global TAVRIDA for the rehabilitation of medium voltage breakers.

Also ensure that all rehabilitation work undertaken by us by highly specialized work and for a period of not less than two years of operation of the incisors.



Stationary panels

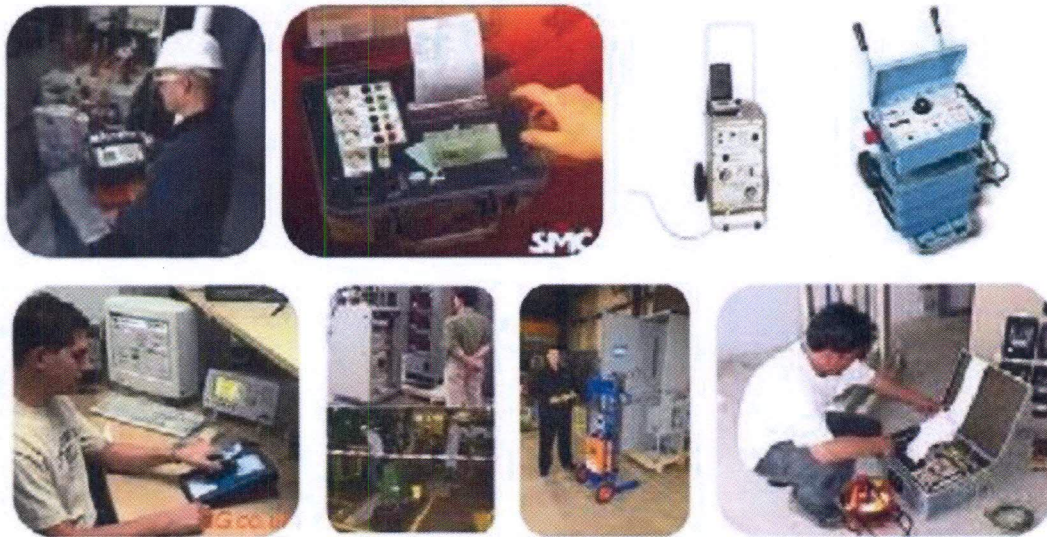


Electrical Relays Factory Co.



• **Installations and tests:**

Has ERSF jointly with the ERC capacity and efficiency in the implementation of any type of combinations or tests. They have many of the organs of modern tests, engineering and technical crews and equipment that will enable them to perform this business and our customers, for example, Saudi Aramco - Saudi Electricity Company - Ministry of Information and the General Organization of Ports and other clients.



• **Steel works:**

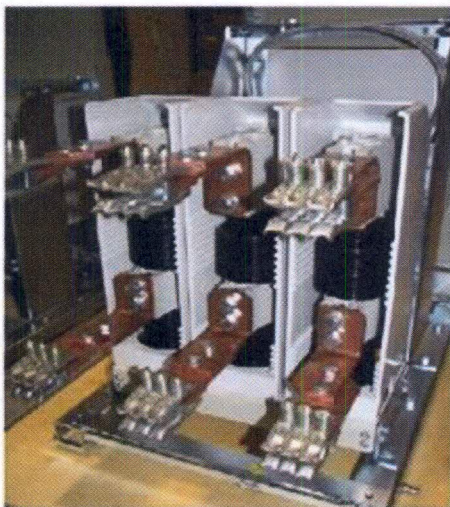
ERSF have experience and crews and equipment necessary to make all kinds of steel works starting from electrical panels and all components of the lids, doors and pillars installed, all this making ERSF unable to meet the demands of all local manufacturers panel boards .ERSF has previous experience in implementing the work of the electricity company (covers sewer cables, roof and gates for giant transformer).



## Some of our Factory Projects

- **Retrofit For M.V CB In TV Building (Riyadh):**

ERSF made retrofit and new trolley for Siemens MV in TV building and has proven professional, factory equipment and engineers to finish the work without any interruption of the electricity in this building because of its extremely important and sensitive.



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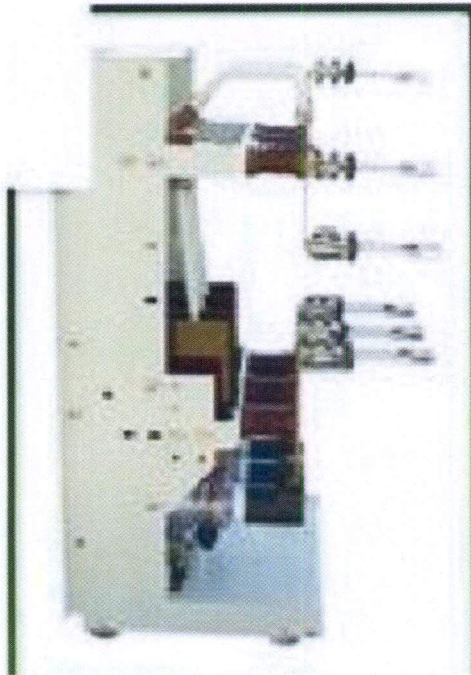
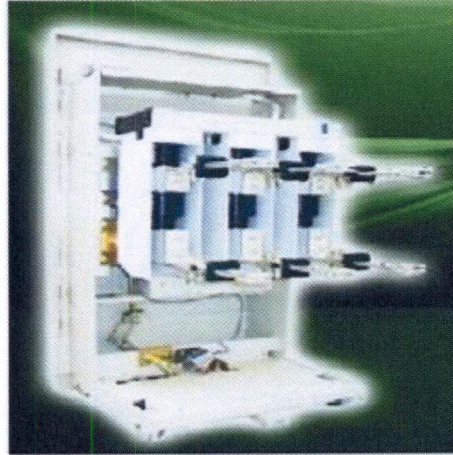
• **Retrofit For M.V CB in AL-KOMRA Radio Station (Jeddah):**

ERSF made retrofit and new trolley for Asea MV in Al-Komrah radio station in Jeddah. The successful completion of this work difficult, as the manufacturer of the Breaker Asia stopped manufacturing this model and thus the supply of any spare parts, something which would have cost the Saudi Information Ministry changed all the switchgear.



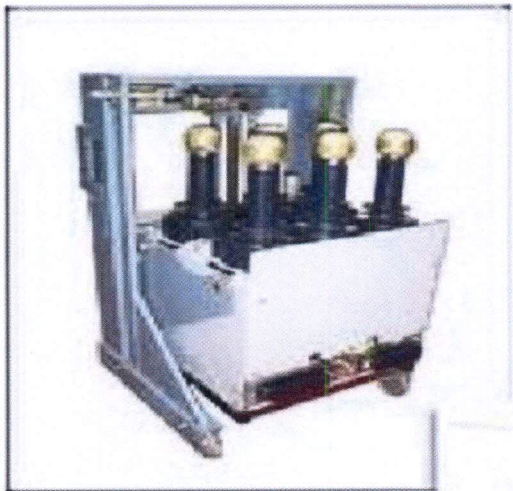
- **Retrofit For M.V CB in RAS Al- ZOR Radio Station (Dammam):**

ERSF made retrofit and new trolley for Siemens MV in RAS Al- ZOR Radio Station in Dammam. Where the change the number of 18 categorically with the work of all the tests necessary and from the date of 2005 and so far do not have any comments on the categorial or fixtures.



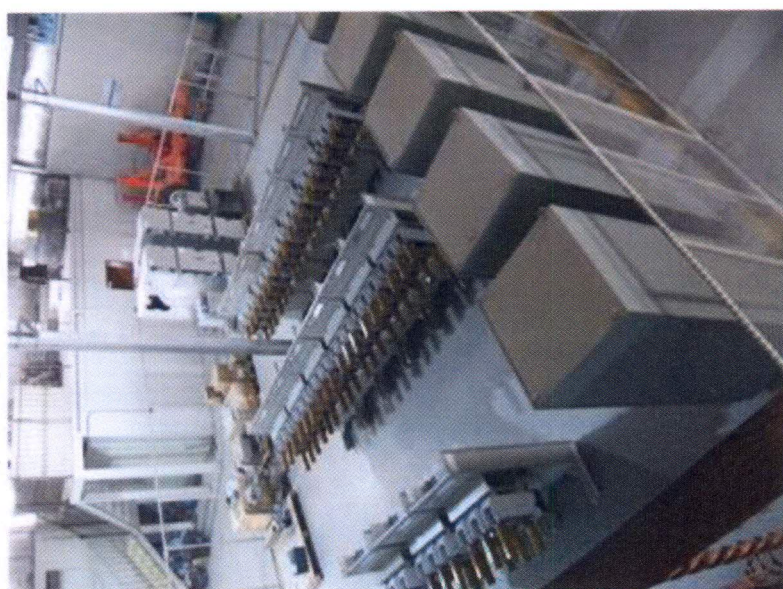
- **Retrofit For M.V CB In Saudi Electricity Company (Riyadh):**

Because of its importance of the Saudi Electricity Company of the importance of economic and social leadership position internally or externally have we had to give attention to this network, this factory has the work samples to establish the type of medium voltage breakers REYROLLE 13.8 kv. To provide a clear example of the quality of our products and efficiency of the crew, technical, engineering and attention from the renaissance of this country.



**•Retrofit For M.V CB In Main Central Building AL-HAIR Jail (Ministry of interior Riyadh):**

Electrical Relays Factory Co. Has Retrofitted 16 pieces of 13.8 K.V breakers to be spare for the sub-station there , This has solved very urgent case there that they don't have any spare breakers there and one of very big and important place like AL-Hair Jail According to the above subject (Retrofit for AL-HAIR substation and according to site visit we would like to inform you we had done same project in ALKhomra radio station and we have the full capability to make the retrofit for national water company with high quality , long warranty for five years and good price , Our product free of maintenance



Electrical Relays Factory Co.



- **Supply of Fault Recorder .Protection Panel To ERC:**

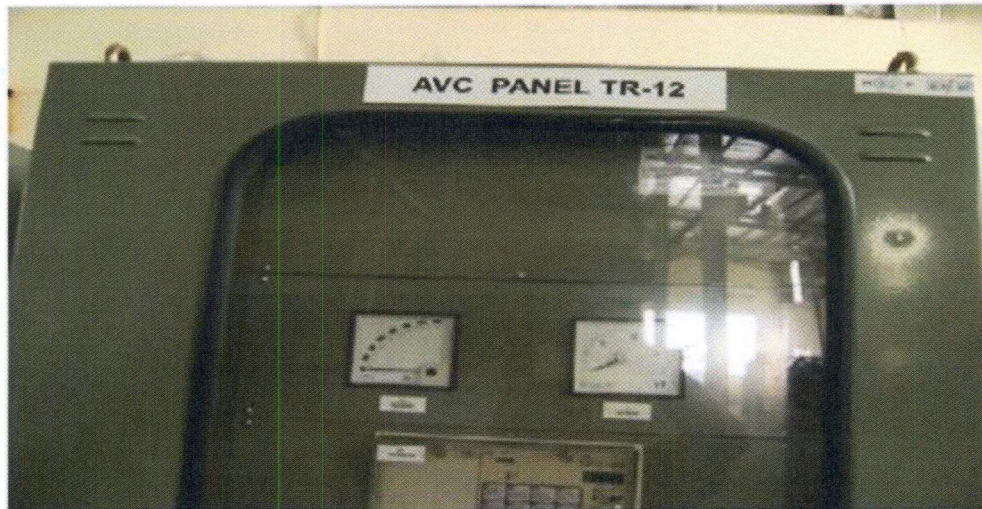
These paintings are a valve Germans of the network of the Saudi Electricity as they protect the network from failures and try to reduce losses and damage recording and transfer to develop a complete picture of network operators, thus ensuring the efficient functioning of the network.



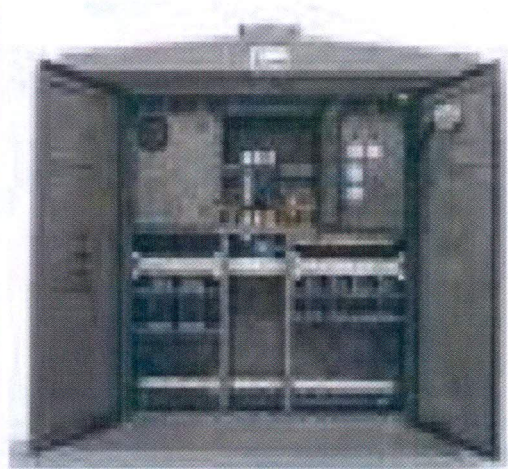

- **Supply of AVC Panel to PAWUEL:**

These AVC Panel are the master of the main electrical transformers in the network of Saudi Electricity Company where you are raising or lowering the steps switch also controls the voltage and current out of these transformers.



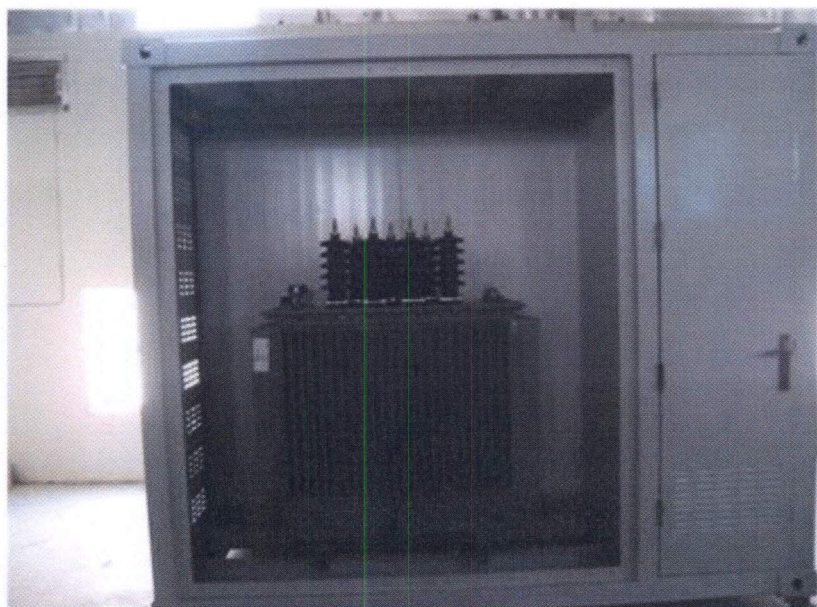
- **Supply of Package Substation To Riyadh Municipality & National Guard:**

These package sub-stations contain of (RMU-Transformer-LV panel), and have many uses feed new areas. Street lighting. Top consumers of electricity from factories, hospitals and others.



**•Supply of Package Substation To National Water Co.:**

These package sub-stations used to supply immersed pumps 200 kw for al wasiea pump station



Electrical Relays Factory Co.

# Capacity of the factory

- **Machines**

Our factory has the best CNC machines for punching, shearing, bending, welding and other. These machines allowed our factory to make **anything any time anywhere**. These machines working with high accuracy so there is **no** way for faults, **no** need for corrections and **no** way for scrap. With these machines we can finish our works in a good shape with minimum time so we can always deliver our finish products before contracted delivery time. From all the above we can say that our best machines helps our customer for good products and best delivery time and also minimize raw material cost so our products always with competitive prices.





Electrical Relays Factory Co.

• **Trained Labors:**

In our factory we have a complete group of trained labors with highly expertise in all of mechanical and electrical works. These labors have the power to do all the required works with good results as supervisor guidance. All our supervisors have good experience and always are near their labors anywhere at any project or inside our factory. As we know technology always changed from day to day so our labors Subject to the best training systems for all new technology to increase their experiences, their skills and their knowledge in their work field to be always with the required level to fulfill our work requirements.





Our factory has number of distinguished skilled workers as shown in the following table:

NO.	Description	Number
1	Mechanical Technicians	15
2	Electrical Technicians	13
3	Skilled Labors	15
4	Mechanical Supervisor	3
5	Electrical Supervisor	3
6	Engineering Staff	12



Electrical Relays Factory Co.

• **Factory Place:**

Electrical Relays Factory Located in Riyadh the Capital of Kingdom of Saudi Arabia – Old Al-Kharj Road – Al-Eskan Industrial Area. This location has a group of best roads which make delivery of materials from customer to factory or vice versa too much easy and this location gets our factory very near to Riyadh dry air port which we use to shipping our products to all over the world.

Our Factory is divided into seven regions within a big area to comply with the requirements of ISO certificate for Quality and industrial safety so our factory area is 4000 Square Meters:

1. Region of the Initial Manufacturing which are estimated, with its 1300 Square Meters.
2. Region of Painting which are estimated, with its 700 Square Meters.
3. Region of Assembly which are estimated, with its 600 Square Meters.
4. Region of Electrical Installations which are estimated, with its 150 Square Meters.
5. Region of Testing which are estimated, with its 50 Square Meters.
6. Region of Warehouses which are estimated, with its 600 Square Meters.
7. Region of Administrative offices which are estimated, with its 600 Square Meters.



work piece is required. Curing of the coating is, however, necessary. This technology is most suitable for coating small objects with simple geometry. The flame-spray technique was recently developed for application of thermoplastic powder coatings. The thermoplastic powder is fluidized by compressed air and fed into a flame gun where it is injected through a flame of propane, and the powder melts. The molten coating particles are deposited on the work piece, forming a film on solidification. Since no direct heating of the work piece is required, this technique is suitable for applying coatings to most substrates. Metal, wood, rubber, and masonry can be successfully coated by this technique. This technology is also suitable for coating large or permanently-fixed objects. The choice of powders is dependent on the end-use application and desired properties. Powders are typically individually formulated to meet specific finishing needs. Nevertheless, powder coatings fall into two basic categories: thermoplastic and thermosetting. The choice is application dependent. However, in general, thermoplastic powders are more suitable for thicker coatings, providing increased durability, while thermosetting powders are often used when comparatively thin coatings are desired, such as decorative coatings. The principal resins used in thermoplastic powders are vinyl, nylon, and fluoropolymer. Thermosetting powders use primarily epoxy, polyester, and acrylic resins. The concentration of powder in air must be controlled to maintain a safe working environment. Despite the absence of flammable solvents, any finely divided organic material, such as dust or powder, can form an explosive mixture in air. This is normally controlled by maintaining proper air velocity across face openings in the spray booth. In the dust collector, where the powder concentration cannot be maintained below the lower explosive limit, either a suppression system or a pressure relief device must be considered.

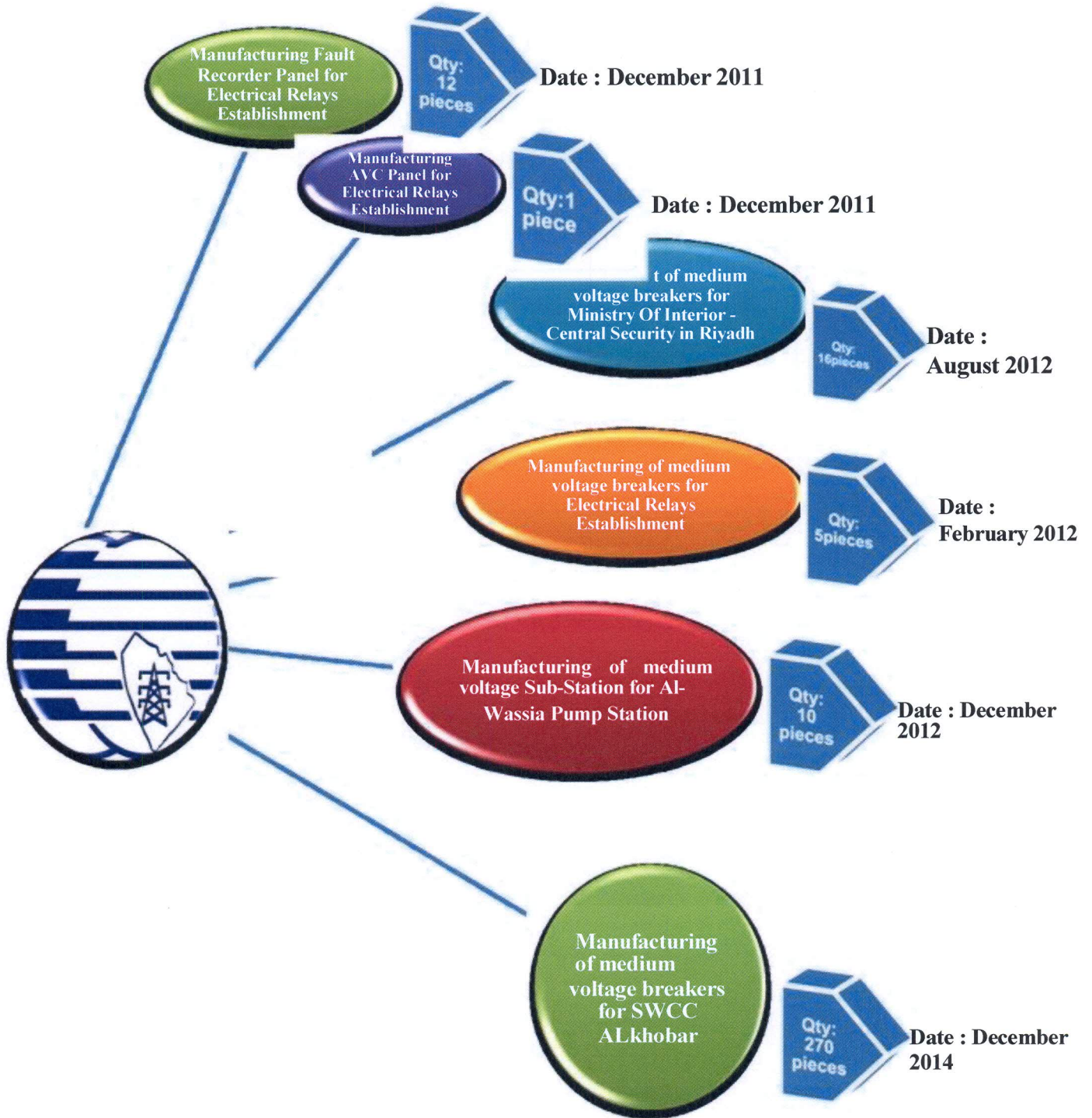








# Factory Ongoing Projects



## To Whom May It Concern

List of supplies made directly and through leading contractors, all are under normal working condition.

No.	Customers	Products
1	Power lighting Est. for Mechanical and electrical Trading.	Fuses Boxes
2	International Saudi Karam Co.	100KVA 380/220V, 60HZ Package Sub-stations.
3	International Saudi Karam Co.	150KVA 380/220V, 60HZ Package Sub-stations.
4	Marawan .El-Ajou Est.	P.Q.S.Sigma Panels 6 Stages
5	Marawan .El-Ajou Est.	P.Q.S.Sigma Panels 3&4&6Stages
6	Marawan .El-Ajou Est.	Distribution Boards with differ measurements.
7	Technology for trading and building.	5KV outdoor High Voltage Boxes.
8	Al-Dhahry Group.	100KVA 380/220V, 60HZ Package Sub-stations.
9	Al-Dhahry Group.	75KVA 380/220V, 60HZ Package Sub-stations.
10	Electrical Relays Est.	Installation and fixing and connecting Sub-station and distribution boards and cabling in Hail for SCECO.
11	Electrical Relays Est.	Installation and fixing and connecting Sub-station and distribution boards and cabling in Yanbo for ARAMCO.
12	Anas for trading Co.	Control boxes
13	Electrical Relays Est.	Installation and fixing and connecting Sub-station and distribution boards and cabling in Aflaj for SCECO.
14	GLOBE Petrochemical Industries.	Distribution Boards 1250A.
15	GLOBE Petrochemical Industries.	Motor Control Boards up to 30 motors.
16	Anas for trading Co.	Communication boxes big size.
17	Taha Mohamed Est. (Iraq)	1000KVA 11000/416V, 50HZ Package Sub-Station.
18	Electrical Control panels factory.	Electrical panel boards Big size
19	Electrical control Panels factory.	Electrical panel boards Small size.
20	Electrical control Panels factory.	Electrical panel boards Very Big size for 3000A Breaker.
21	Saudi lighting Co.	Lamps Holder Medium Size.
22	Electrical Relays Est.	Fault Recorder Panels for SCECO.

Electrical Relays Factory Co.



No.	Customers	Products
23	Electrical Relays Est.	AVC Panel for SCECO.
24	Electrical Relays Est.	Bus- bar Protection for SCECO.
25	Electrical control Panels factory.	Electrical panel boards Very Big size.
26	Electrical control Panels factory.	Electrical panel boards Medium size.
27	National Guard	Distribution Panel Boards.
28	Al-Khourayef Industrial Factory	Distribution Enclosures.
29	Al-Khourayef Industrial Factory	Control Disk.
30	ComAp Systems.	Control and D.B as Clint Need.
31	Ministry of Information.	Manufacturing of load Break Switch.
32	National Water Company - RCBU	Auto Transformer Panel.
33	Ministry of Information (AlKhomra Radio Station).	ASEA M.V Retrofit Breakers.
34	Al-Khourayef Industrial Factory	Different Type of Distribution Enclosures
35	SCECO company.	REYROLLE M.V Retrofit Breakers.
36	Setraa Al Amal Factory.	Control and D.B as Clint Need.
37	Electrical Relays Est.	Manufacture and installation of low voltage panels 1600A Conform to the specifications SCECO
38	Electrical Relays Est.	Manufacture and installation of fire fighting system in Aflaj
39	SANA ALMAJD EST.	Manufacture Main distribution panel for Outdoor lighting
40	MORJANA COMPANY FOR CONSTRUCTION.	Manufacture Main distribution panel
41	AL MEGLEYA COMPLEX	M.V Retrofit Breakers.
42	Al Deghaither Center, Tahlia St., Al	Manufacture and installation MDP
43	World Assembly of Muslim Youth	Manufacture and installation MDP
44	Command Of Aviation Defence Forces	Manufacturing Main Distribution Panel For Transformers
45	Ministry Of Interior	Replacement of medium voltage breakers
46	GLOBE TERMINAL	Manufacturing Panel
47	Al Drees Industrial & Trading Co. (ALITCO)	Manufacturing Steel Box

Electrical Relays Factory Co.

